

TEC Electronic Cash Register

MA-305-100

# Owner's/Programming Manual



TOKYO ELECTRIC CO., LTD.

#### - WARNING -

This equipment generates, uses, and can radiate radio frequency energy and if not installed and used in accordance with the instruction manual, may cause interference to radio communications. It has been tested and found to comply with the limits for a Class A computing device pursuant to Subpart J of Part 15 of FCC Rules, which are designed to provide reasonable protection against such interference when operated in a commercial environment. Operation of this equipment in a residential area is likely to cause interference in which case the user at his own expense will be required to take whatever measures may be required to correct the interference.

#### - WARNING -

"THIS DIGITAL APPARATUS DOES NOT EXCEED THE CLASS A LIMITS FOR RADIO NOISE EMISSIONS FROM DIGITAL APPARATUS SET OUT IN THE RADIO INTERFERENCE REGULATIONS OF THE CANADIAN DEPARTMENT OF COMMUNICATIONS."

"LE PRÉSENT APPAREIL NUMÉRIQUE N'EMET PAS DE BRUITS RADIOÉLECTRIQUES DÉPASSANT LES LIMITES APPLICABLES AUX APPAREILS NUMÉRIQUES DE LA CLASSE A PRESCRITES DANS LE RÉGLEMENT SUR LE BROUILLAGE RADIOÉLECTRIQUE ÉDICTÉ PAR LE MINISTÈRE DES COMMUNICATIONS DU CANADA."

# 1. Introduction

Thank you for choosing the TEC electronic cash register MA-305 series. This instruction manual provides a description of the functions and handling of this register and should be read carefully to ensure optimum performance. Since every consideration has been given to safety and reliability, there is no danger of damaging the machine by incorrect operation.

Please refer to this manual whenever you have any questions concerning the machine. This machine has been manufactured under strict quality control and should give you full satisfaction. However, if the machine is damaged during transit, or there are any unclear points in this manual:

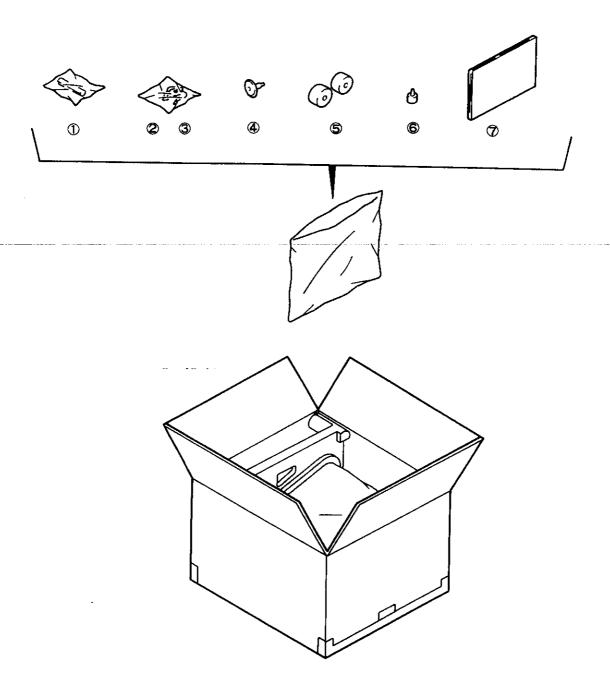
For supplies, service or assistance call:

Please have the follo	wing information available when
Product Name:	TEC Electronic Cash Register
Model:	MA-305-100
Serial Number:	
Place Purchased:	
Date of Purchase:	

If for any reason this product is to be returned to the store where purchased, it must be packed in the original carton.

- The specifications described in this manual may be modified by TEC, if necessary.
- Be sure to keep this manual for future reference.

# 2. Unpacking



- ① Ink Roll (1 pc.)
- © Control Key (REG Key, MA Key, S Key; 2 pcs. respectively)
- 3 Drawer Key (2 pcs.)

- S Paper Roll 45mm × Ø50mm (2 pcs.)
- 6 Stamp Ink (1 pc.)
- ② Owner's Manual (1 pc.)

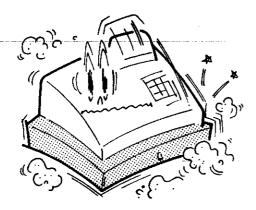
## 3. Precautions

The ECR is a precision machine. Please handle it carefully considering the following guidelines.

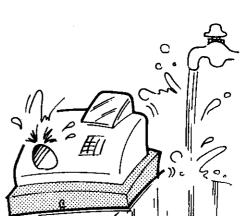
#### Remarks on the Location

Do not place it where unusual temperature changes are expected or where it will be subjected to direct sunlight.

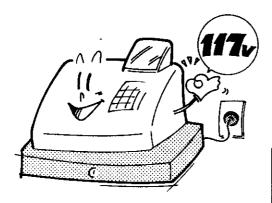




Place it on a flat and level surface with little dust, humidity, vibration, etc.



Keep it away from water sources.

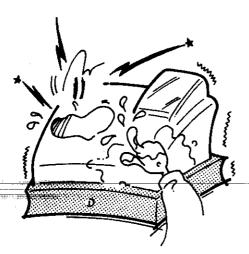


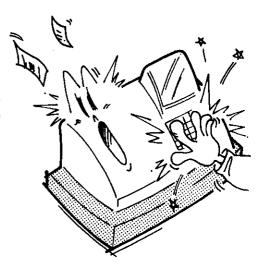
Be certain that the power voltage in your area matches that required for the machine. (The rated voltage is 117V AC.)

The socket-outlet shall be installed near the equipment and shall be easily accessible.

## Remarks on Operating the ECR

The keys on the keyboard function with a light touch. Avoid pressing the keys too hard.

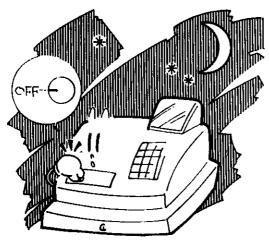




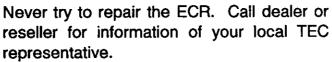
Do not handle the machine with wet hands, since this may cause electrical malfunctions and corrosion of parts.

Do not apply thinner, benzine, or other volatile materials to the cabinet or other plastic parts. Such liquids will cause discoloration or deterioration. If dirty, wipe off with a piece of cloth soaked in a neutral detergent and wrung out thoroughly.





Turn the Control Lock to **OFF** position when all operations are completed after business hours.





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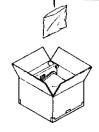
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•	Operating Procedure Department Preset Price Read Department LC and Status Read PLU Table Read Other Programmed Data Read System Option Read 1 System Option Read 2	103 104 104 105 105 106 106
•	Operating Procedure Department Preset Price Read Department LC and Status Read PLU Table Read Other Programmed Data Read System Option Read 1 System Option Read 2  Paper Roll Replacement and Other Maintenance	103 104 104 105 105 106 106
•	Operating Procedure Department Preset Price Read Department LC and Status Read PLU Table Read Other Programmed Data Read System Option Read 1 System Option Read 2  Paper Roll Replacement and Other Maintenance Replacing the Receipt Roll	103 104 104 105 105 106 106
•	Operating Procedure Department Preset Price Read Department LC and Status Read PLU Table Read Other Programmed Data Read System Option Read 1 System Option Read 2  Paper Roll Replacement and Other Maintenance Replacing the Receipt Roll Replacing the Journal Roll	103 104 104 105 105 106 106 <b>107</b>
•	Operating Procedure Department Preset Price Read Department LC and Status Read PLU Table Read Other Programmed Data Read System Option Read 1 System Option Read 2  Paper Roll Replacement and Other Maintenance Replacing the Receipt Roll Replacing the Journal Roll Replacing the Ink Roll	103 104 104 105 105 106 106 <b>107</b> 107 108 109
•	Operating Procedure Department Preset Price Read Department LC and Status Read PLU Table Read Other Programmed Data Read System Option Read 1 System Option Read 2  Paper Roll Replacement and Other Maintenance Replacing the Receipt Roll Replacing the Journal Roll Replacing the Ink Roll Replenishing Ink to the Store Name Stamp	103 104 104 105 105 106 106 <b>107</b> 107 108 109 110
•	Operating Procedure Department Preset Price Read Department LC and Status Read PLU Table Read Other Programmed Data Read System Option Read 1 System Option Read 2  Paper Roll Replacement and Other Maintenance Replacing the Receipt Roll Replacing the Journal Roll Replacing the Ink Roll Replenishing Ink to the Store Name Stamp Manual Drawer Release and Lock	103 104 104 105 105 106 106 <b>107</b> 107 108 109 110
•	Operating Procedure Department Preset Price Read Department LC and Status Read PLU Table Read Other Programmed Data Read System Option Read 1 System Option Read 2  Paper Roll Replacement and Other Maintenance Replacing the Receipt Roll Replacing the Journal Roll Replacing the Ink Roll Replenishing Ink to the Store Name Stamp	103 104 104 105 105 106 106 <b>107</b> 107 108 109 110
21.	Operating Procedure Department Preset Price Read Department LC and Status Read PLU Table Read Other Programmed Data Read System Option Read 1 System Option Read 2  Paper Roll Replacement and Other Maintenance Replacing the Receipt Roll Replacing the Journal Roll Replacing the Ink Roll Replenishing Ink to the Store Name Stamp Manual Drawer Release and Lock Removing the Drawer	103 104 104 105 105 106 106 <b>107</b> 107 108 109 110 111 113
21.	Operating Procedure Department Preset Price Read Department LC and Status Read PLU Table Read Other Programmed Data Read System Option Read 1 System Option Read 2  Paper Roll Replacement and Other Maintenance Replacing the Receipt Roll Replacing the Journal Roll Replacing the Ink Roll Replacing the Ink Roll Replacing Ink to the Store Name Stamp Manual Drawer Release and Lock Removing the Drawer	103 104 104 105 105 106 106 <b>107</b> 107 108 109 110
21.	Operating Procedure Department Preset Price Read Department LC and Status Read PLU Table Read Other Programmed Data Read System Option Read 1 System Option Read 2  Paper Roll Replacement and Other Maintenance Replacing the Receipt Roll Replacing the Journal Roll Replacing the Ink Roll Replacing the Ink Roll Replacing Ink to the Store Name Stamp Manual Drawer Release and Lock Removing the Drawer  Troubleshooting	103 104 104 105 105 106 106 <b>107</b> 107 108 109 110 111 113
21.	Operating Procedure Department Preset Price Read Department LC and Status Read PLU Table Read Other Programmed Data Read System Option Read 1 System Option Read 2  Paper Roll Replacement and Other Maintenance Replacing the Receipt Roll Replacing the Journal Roll Replacing the Ink Roll Replacing the Ink Roll Replacing Ink to the Store Name Stamp Manual Drawer Release and Lock Removing the Drawer  Troubleshooting	103 104 104 105 105 106 106 <b>107</b> 107 108 109 110 111 113
21.	Operating Procedure Department Preset Price Read Department LC and Status Read PLU Table Read Other Programmed Data Read System Option Read 1 System Option Read 2  Paper Roll Replacement and Other Maintenance Replacing the Receipt Roll Replacing the Journal Roll Replacing the Ink Roll Replenishing Ink to the Store Name Stamp Manual Drawer Release and Lock Removing the Drawer  Troubleshooting  Status Clear and Memory Clear Operations	103 104 104 105 105 106 106 107 107 108 109 110 111 113 114
21.	Operating Procedure Department Preset Price Read Department LC and Status Read PLU Table Read Other Programmed Data Read System Option Read 1 System Option Read 2  Paper Roll Replacement and Other Maintenance Replacing the Receipt Roll Replacing the Journal Roll Replacing the Ink Roll Replacing Ink to the Store Name Stamp Manual Drawer Release and Lock Removing the Drawer  Troubleshooting  Status Clear and Memory Clear Operations Status Clear	103 104 104 105 105 106 106 107 107 108 109 110 111 113 114
21.	Operating Procedure Department Preset Price Read Department LC and Status Read PLU Table Read Other Programmed Data Read System Option Read 1 System Option Read 2  Paper Roll Replacement and Other Maintenance Replacing the Receipt Roll Replacing the Journal Roll Replacing the Ink Roll Replacing the Ink Roll Replenishing Ink to the Store Name Stamp Manual Drawer Release and Lock Removing the Drawer  Troubleshooting  Status Clear and Memory Clear Operations Status Clear Sales Memory Clear	103 104 104 105 105 106 106 <b>107</b> 107 108 109 110 111 113 <b>114</b>
21. 22. 23.	Operating Procedure Department Preset Price Read Department LC and Status Read PLU Table Read Other Programmed Data Read System Option Read 1 System Option Read 2  Paper Roll Replacement and Other Maintenance Replacing the Receipt Roll Replacing the Journal Roll Replacing the Ink Roll Replacing Ink to the Store Name Stamp Manual Drawer Release and Lock Removing the Drawer  Troubleshooting  Status Clear and Memory Clear Operations Status Clear	103 104 104 105 105 106 106 107 107 108 109 110 111 113 114

# 5. Outline of Preparation Procedure Before Operating the ECR

This chapter shows the outline of set-up procedure of the ECR before actually starting the ECR operation.



Remove the cash register from the carton, referring to Chapter "2. Unpacking" on page 2. And take out all the parts and accessories.



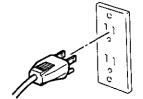


Remove the tapes and seals for holding parts or protecting the register surfaces.



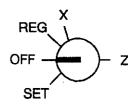


Plug the power cord of the register into a wall outlet. Make sure that the outlet voltage matches that of the power required for the register.



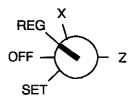


Insert the MA key into the Control Lock.



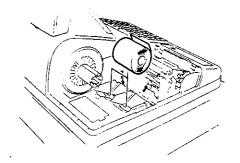


Turn the Control Lock to the REG position.





Install the Receipt and Journal rolls (referring to Chapter "10. Installing the Receipt/Journal Roll"). Also, install the Ink Roll (referring to Chapter "11. Installing the Ink Roll").





If any optional keys are installed or relocated on the keyboard, the optional key setting programming must be performed first before any other programming. Refer to Chapter "15. Optional Key Setting."



Set the time and date correctly, referring to Chapter "12. Setting the Time and Date".



Set the tax tables, referring to the Chapter "13. Tax Table Setting".

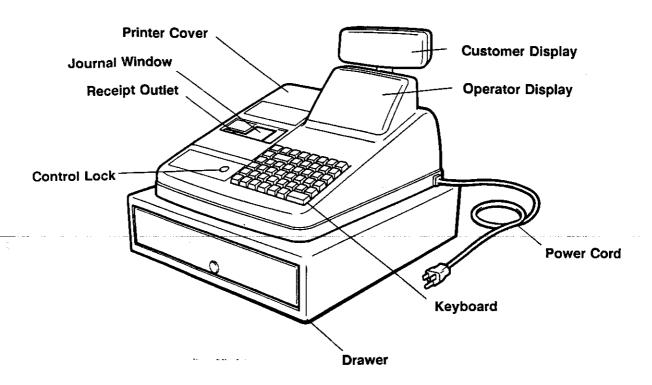


When multiple registers are used in one store, or to distinguish this register from others used by other stores in the same chain, set the Register Number referring to Chapter "14. Setting the Register No."



Perform programming the register, such as Departments and PLUs, according to the requirement of the market and your store (refer to Chapter 16 and thereafter).

# 6. Appearance and Nomenclature



#### **Operator Display**

Used by the operator to confirm the entry contents and the status of the register. (page 12)

#### **Customer Display**

Provided for the customer to see the amount entered for each item and sale total. (page 12)

#### **Receipt Outlet**

The receipt for the finalized sale is issued.

#### **Printer Cover**

The cover for the Receipt/Journal printer.

#### **Journal Window**

The operator can see which items have already been entered through this window.

#### **Control Lock**

It selects the type of register operations. (page 11)

#### Keyboard

Used to enter sale items. (page 14)

#### Journal Take-up Reel

It winds up the journal paper portion already printed.

#### Store Name Stamp

It is the stamp to be printed on the receipt. You can order your own store's stamp. (page 122)

#### Drawer

Cash and other media are kept here. It automatically opens on finalizing a sale.

# 7. Control Lock and Control Keys

## **Control Keys**

There are three types of Control keys: the **REG** (registration) key, the **MA** (manager) key, and the **S** (service) key.

REG

REG Key: The REG key is used by the cashier or clerk who operates ordinary transaction entries. This key can access the positions of OFF and REG of the Control Lock.



The MA Key is used by the store manager or owner who will daily supervise the collection of money and printout of transactions recorded by the register. This key is also used by programmer. This key can access the positions of SET, OFF, REG, X, and Z.



The S key is used by the owner. This key can access any position including **BLIND** of the Control Lock. However, to prevent programmed data and sales data from being changed by mistake, use the REG or MA keys for transaction entries or report taking purposes.

#### **Control Lock**

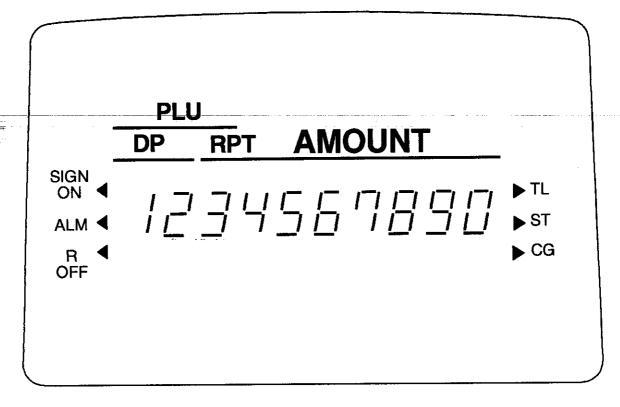
The Control Lock has five effective positions for different modes of operation, which are accessed by the appropriate Control Keys.

	(position)	(function)
x	SET	The register allows programming operations.
OFF z	OFF	Nothing appears on the display in this position. However, the power is being supplied to the register.
SET BLIND  * not actually printed.	REG	Transaction entries are carried out in this mode. Displays the current time while no entries are under way.
	X	The sale totals in memory can be read (X reports) and the programmed data can be verified in this position.
	Z	All the resettable totals and their respective counters in memory will be read <u>and</u> reset in this position (Z reports)
	BLIND	The register allows special programming operations and memory clear operations.

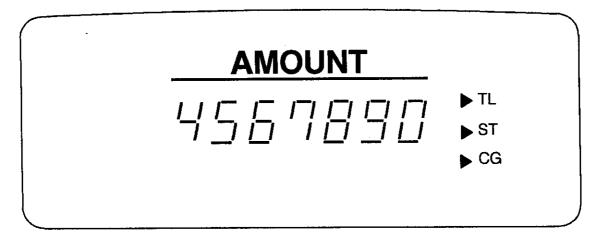
# 8. Display

The Operator's Display (front display) is located at the top of the register just above the keyboard. The Customer's Display may be used only as a rear display if left in the retracted position or it can be positioned for viewing at other angles by pulling it upward and turning it to the desired position. The display has two types of display portions -- numeric display and message descriptors (triangular lamps).

#### Operator's Display



#### Customer's Display



## **Numeric Display**

**AMOUNT** (8 digits for total display, 7 digits for entries):

Displays the numeric data, such as amount, quantity, etc. When the obtained total or subtotal amount is 8-digit, the RPT digit is also used for the amount display. When no entries are under way and the Control Lock is in the REG position, the current time is displayed.

position, the current time is displayed.

**DP** (2 digits): Displays the code which represents each Department key.

It stays lit when repeating the same department entry.

RPT (1 digit): Displays the repeat count of the same item. The count is

indicated from the second entry on, and only the last digit

will be displayed even if the count exceeds nine.

**PLU** (3 digits of the DP and RPT are used for this purpose):

Displays the PLU code when any PLU is entered. It goes out when repeating the same PLU entry, then only the RPT digit will be displayed for the repeat entry count.

## Message Descriptors (Triangular Lamps)

SIGN : Illuminates when a cashier has signed ON.

ALM: Illuminates with the alarm buzzer to indicate that the last

operation or numeric entry was an error. To clear the error

condition, depress the [C] key.

Illuminates when the Receipt-OFF mode is declared by the [LOG/RECEIPT] key. In this condition, no receipts will be issued for a sale to be entered. To extinguish this lamp (i.e., to

change into Receipt-ON mode for issuing receipts), simply

depress the [LOG/RECEIPT] key again.

TL: Illuminates with the total amount displayed when a sale is

finalized without any amount tendered.

ST: Illuminates with the subtotal amount displayed when the [ST] or

[TXBL TL] key is depressed.

CG: When an amount tendering operation has been performed, this

lamp illuminates with the amount of change due displayed.

# 9. Keyboard

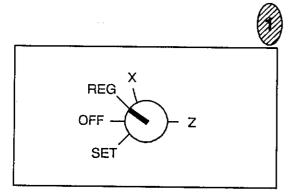
The following is the standard keyboard layout, which was initially set at the factory. This register is designed to be capable of programming most of the keys at desired locations or adding some optional keys in place of the current keys. If you are in need of changing the locations or adding keys, see Chapter "15. Optional Key Setting".

#### Standard Keyboard Layout

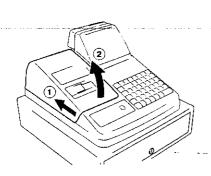
LOG RECEIPT	#/NS	RF	JF	RECEIPT ISSUE	LC OPEN	%+	% –
 RTN MDSE			@/FOR	<b>1</b> .	6	R/A	РО
TX/M	7	8	9	2	7	DOLL DISC	EX
PLU	4	5	6	3	8	Chg	CUR
AMT	1	2	3	4	9	ST	CHK TND
ITEM CORR	0	00	•	5	10	AT	/TL

# 10.Installing the Receipt/Journal Roll

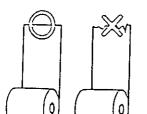
# Installing the Receipt Roll



Turn the Control Lock to the **REG** position using a Control Key.

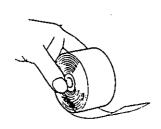


To remove the Printer Cover, lift the Printer Cover in the direction of the arrow mark ② while pushing the Printer Cover in the direction of the arrow mark ①.



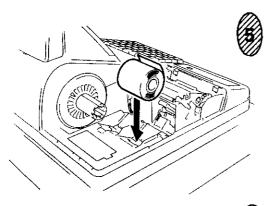


Cut the paper end to make it sharp.

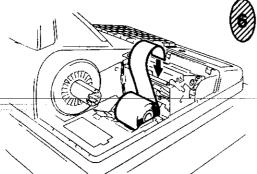




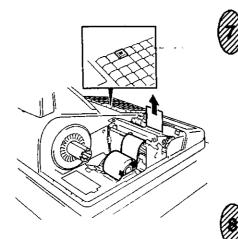
Hold the paper roll so that the paper end will be fed from the bottom.



Place the paper roll in the outer side holder of the two roll holders.



Insert the paper end into the space behind the printer.



Press the **[RF]** key until about 4 inches (about 10 cm) of paper comes out of the printer.



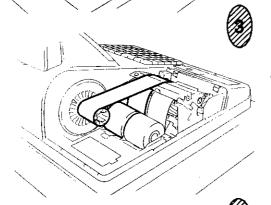
Attach the Printer Cover, and cut the excess paper with the attached cutter.

## Installing the Journal Roll

Follow Steps 1 to 7 for "Installing the Receipt Roll" on the preceding page, except that the paper roll should be placed inner side of the two holders and the [JF] key should be used for the journal roll.



Insert the paper end into the slit on the Take-up Reel and wind it around the reel two or three times.

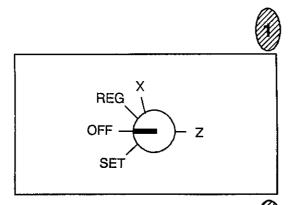


Set the Journal Take-up Reel into the Reel Holder.



Attach the Printer Cover.

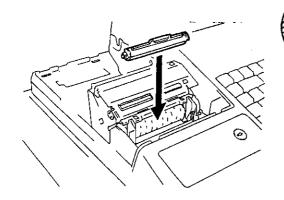
# 11. Installing the lnk Roll



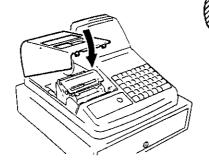
Turn the Control Lock to the **OFF** position.



To remove the Printer Cover, lift the Printer Cover in the direction of the arrow mark ② while pushing the Printer Cover in the direction of the arrow mark ①.



Install the Ink Roll in the direction of the arrow mark.



Attach the Printer Cover.

# 12. Setting the Time and Date

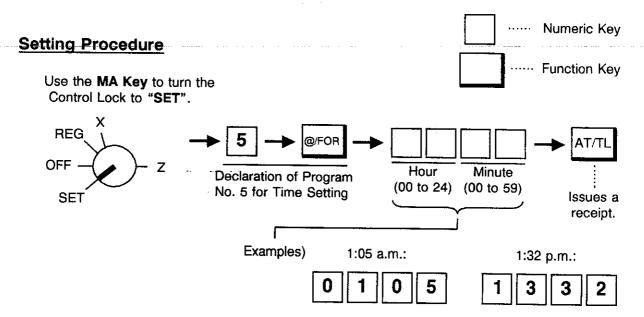
## **Setting the Time**

The register has a clock function. Once the time is set, the time is kept even when the power is turned off. The 24-hour system (the military time) is used for time setting, display, and printing. Time setting is allowed any time outside a sale.

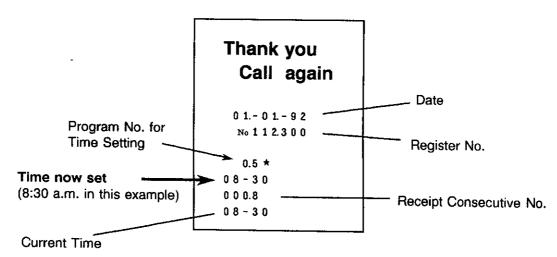
#### Condition for Setting: Must be signed off.

NOTE on "Condition":

This is necessary for all program changes.



## Receipt Print Format

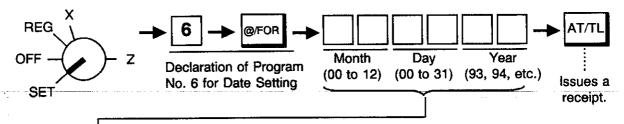


## **Setting the Date**

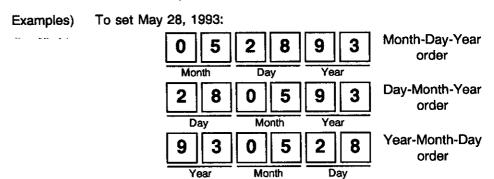
The register has a calendar function. Once the date and time are correctly set, the day automatically advances at midnight even when the power is turned off. The extra day of a leap year is also computed automatically.

#### **Setting Procedure**

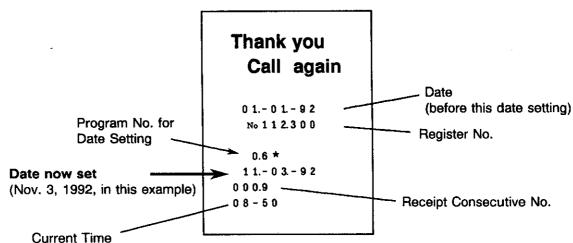
Use the MA Key to turn the Control Lock to "SET".



NOTE: The date set/print order is Month-Day-Year. If you want to change the order into Day-Month-Year or Year-Month-Day, select appropriate status of Bits 7 and 8 in Address 16 in Chapter "19. System Option Setting".



## **Receipt Print Format**



## **Displaying the Time**

The current time is displayed in the "AMOUNT" area when the Control Lock is turned to **REG** from any other position. When the Control Lock position is changed or any entry operation starts, the displayed time disappears.

# **Printing the Time and Date**

The current time is printed on every receipt, as the bottom line (refer to the **Receipt Print Format** on the preceding page). The time can be programmed to non-print, if necessary, by a System Option selection (refer to Chapter "19. System Option Setting", Address 1 - Bit 1).

The date is printed on every receipt, as the top line below the Store Name Stamp print (refer to the **Receipt Print Format** on the preceding page). The quickest way to verify the date print with the Control Lock in **REG** position is to issue a Sign ON, Sign OFF, or No-sale receipt (see Chapter 16).

# 13. Tax Table Setting

For details about the actual tax table, contact to the location where the register was purchased.

## Setting the U.S. Tax Tables (also applicable to PST in Canada)

There are three ways to set state and local tax tables. Select one that suits the tax table required to be set.

#### Condition for Setting: After Daily Financial Reset

#### NOTE on "Condition":

Unless the register satisfies this condition, the programming operations will not be allowed.

"After ... Reset" means that the designated reset report must be taken before entering the programming (setting) operation. An error will result if the operation is attempted without taking the report.

However, it does not necessarily mean "immediately after ..." When the designated reset report has already been taken and then some operations are performed in the "X", "Z", or "SET" mode, the condition "After ... Reset" is still satisfied and the programming operation is still allowed.

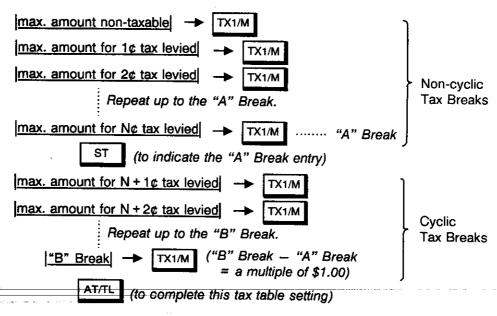
On the contrary, when the designated reset report has been taken but then some sales data relating to that report's output data are entered in the "REG" mode, the programming operation will no longer be allowed and the same reset report must be taken again.

Thus the condition "After ... Reset" indicates that all the sales data relating to the report data must be zero (except non-resettable memory data). Because of this "Condition" requirement, the report data will be protected from any inconsistencies of sales data entered in the period from a resetting of the report to another resetting of the same report next time. When no condition is specified to a programming (setting) operation, it means that the operation is allowed any time outside a sale but the cashier must be signed off.

#### **Setting Procedure:**

Use the **MA Key** to turn the Control Lock to "**SET**".

## 1) Tax 1; Full Breaks (Non-cyclic Breaks + Cyclic Breaks)



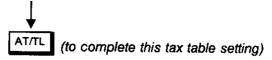
NOTE: Each amount (break) entry may be a maximum of 4-digit value (9999¢).

# 2) Tax 1; "A" Break and % Rate Combination (Non-cyclic Breaks + % Rate)

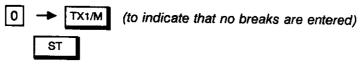
First, set all the non-cyclic breaks up to the "A" Break entry and the [ST] key depression shown in the above case of "1) Tax 1 Full Breaks".

## Tax Rate applied when exceeding the "A" Break amount

(Max. 6 digits up to 99.9999%. Use the [ . ] key for a decimal value. Examples: To set 5%, enter 5. To set 5.26%, enter  $5\rightarrow$ [ . ] $\rightarrow$ 2 $\rightarrow$ 6. The fraction of the amount resulting from this % rate calculation will be rounded off.)



## 3) Tax 1; % Rate Only



Tax Rate applied to any amount → AT/TL

(The description for the Tax Rate in the above case 2) is also applied to this case.)

- NOTES 1. In a single-tax area, the [TX1/M] key may be labeled as [TX/M] key.
  - For Tax 2 table setting in a multi-tax area, follow the same procedure in 1), 2), or 3) above, using the [TX2/M] key instead of [TX1/M].
    To install the [TX2/M] key on the keyboard, refer to Chapter "15. Optional Key Setting".
  - 3. If two tax tables are to be set, the Tax 1 table must be set first. The Tax 1 table setting will automatically reset the old Tax 1 and Tax 2 tables.
  - 4. No second depression of the [ST] key is allowed within one tax table setting. A maximum of 64 breaks may be entered for Tax 1 and Tax 2 tables altogether.

#### **Setting Examples:**

ex. 1) Tax 1; Full Breaks

Tax Table		Key Operation
Amount Range	Tax Levied	Control Lock: SET
\$0.00 to \$0.10 \$0.11 to \$0.22 \$0.23 to \$0.39 \$0.40 to \$0.56 \$0.57 to \$0.73 \$0.74 to \$0.90	0¢ 1¢ 2¢ 3¢ 4¢ 5¢	1 0 TX1/M 2 2 TX1/M 3 9 TX1/M 5 6 TX1/M 7 3 TX1/M 9 0 TX1/M 1 0 8 TX1/M
\$0.91 to \$1.08 "A" Brea	6¢ ak	ST IX1/M
\$1.09 to \$1.24 \$1.25 to \$1.41 \$1.42 to \$1.58 \$1.59 to \$1.74 \$1.75 to \$1.91 \$1.92 to \$2.08	7¢ 8¢ 9¢ 10¢ 11¢ 12¢	1 2 4 TX1/M 1 4 1 TX1/M 1 5 8 TX1/M 1 7 4 TX1/M 1 9 1 TX1/M 2 0 8 TX1/M
"B" Br	eak	AT/TL

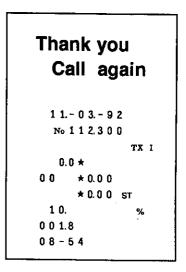
	k you I again
	03-92
No 1	12300
	TXI
0.0	
	*0.10
	<b>*</b> 0.2 2
	<b>*0.39</b>
	<b>★0.56</b>
- '	<b>★0.73</b>
	<b>*</b> 0.9 0
	<b>*108</b>
	★ 1.08 ST
	<b>* 1.2 4</b>
	*141
	<b>* 1.5 8</b>
	<b>*174</b>
	*191
	*208
	<b>★208</b> TL
0 0 1.6	_
08-5	4

## ex. 2) Tax 1; "A" Break and % Rate Combination

Tax Table	Key Operation	
Amount Range Tax Levied	Control Lock: SET	Thank you
\$0.00 to \$0.09 O¢	9 TX1/M	Call again
\$0.10 to \$0.29 1¢	2 9 TX1/M	110392
\$0.30 to \$0.59 2¢	5 9 TX1/M	No 112300
\$0.60 to \$0.84 3¢	8 4 TX1/M	0.0 *
\$0.85 to \$1.12 4¢	1 1 2 TX1/M	00 *0.09 01 *0.29
"A" Break	ST	02 *0.59
5% is applied to any amount exceeding the "A" Break.	5 AT/TL	0.4 *1.1.2 *1.1.2 st 5. % 0.0.1.7
		08-54

## ex. 3) Tax 1; % Rate Only

Tax Table	Key Operation
	Control Lock: SET
10% is applied to any amount.	0 TX1/M ST 1 0 AT/TL



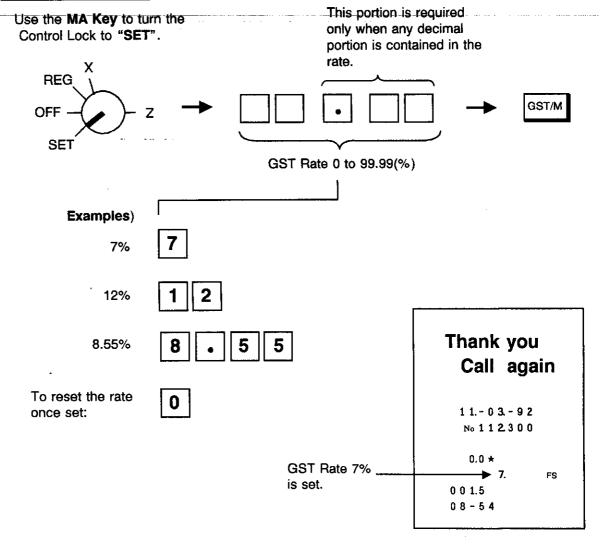
# Setting the GST Rate (applicable to Canada only)

Please note the following before operating the GST rate setting. The following preparations are required:

- 1) Select the "GST Active" status in Chapter "19. System Option Setting", Address 14 Bit 1 (some other options can also be selected relating to GST in the same Address).
- 2) Install the [GST/M] (GST Modifier) key on the keyboard (in place of unnecessary key) referring to Chapter "15. Optional Key Setting".

Condition for Setting: After Daily Financial Reset (refer to "NOTE on Condition" on page 22.)

#### **Setting Procedure:**



# Setting the Non-taxable Limit Amount (applicable to only certain areas in Canada)

This non-taxable amount limit must be set only in certain areas in Canada.

**Condition for Setting:** 

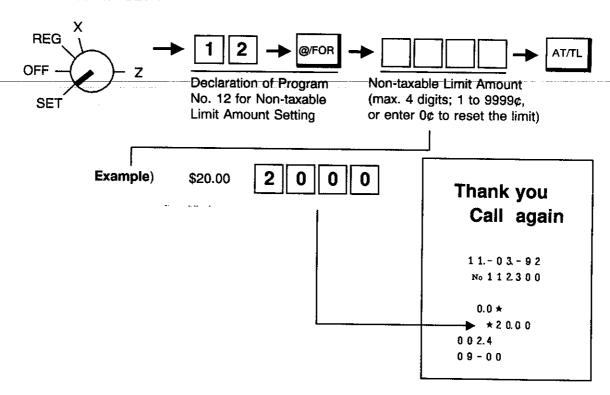
After Daily Financial Reset

(refer to "NOTE on Condition" on page

22.)

**Setting Procedure:** 

Use the MA Key to turn the Control Lock to "SET".



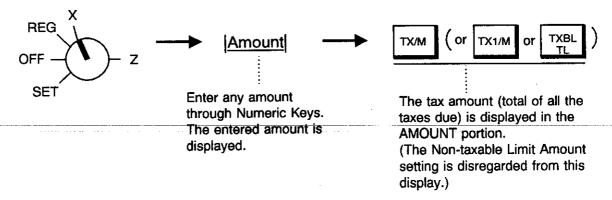
- NOTES 1. When the sum of the sale portion subject to Tax (PST) 1 and the sale portion subject to Tax (PST) 2 exceeds the Non-taxable Limit Amount programmed here, all the amount subject to either of the two taxes are all taxed. When the sum is less than the programmed limit, Tax 1 is tax-exempted and only Tax 2 is calculated on the sale portion subject to Tax 2.
  - 2. When the sum of the sale portion subject to Tax (PST) 1 and the sale portion subject to Tax (PST) 2 is negative, the portion subject to Tax 1 will not be taxed.
  - 3. When the sale portion subject to Tax 1 is tax-exempted, the taxable amount is not stored in Tax 1 memory.
  - 4. An error results when the [GST/M] key is depressed in sale entries on the ECR with Non-taxable Limit Amount programmed.

## **Tax Calculation Test**

Tax calculation can be tested in the following procedure. This operation will not affect any sales data.

#### **Operating Procedure:**

Use the **MA Key** to turn the Control Lock to "X".



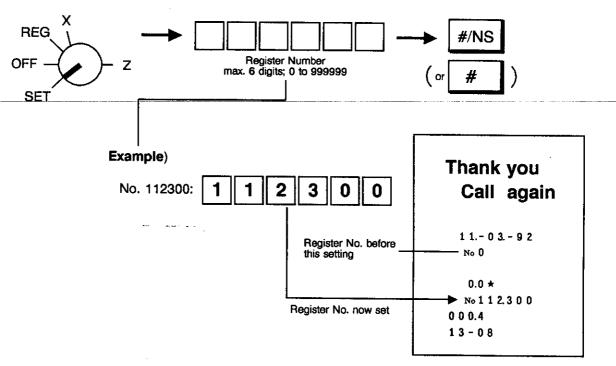
# 14. Register No. Setting

When multiple registers are used in one store, or to distinguish this register from others used by other stores in the same chain, set the Register Number in the following procedure.

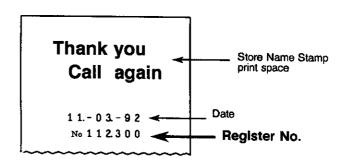
Condition for Setting: Any time outside a sale and signed off.

#### **Setting Procedure:**

Use the MA Key to turn the Control Lock to "SET".



- NOTES 1. The Decimal Point cannot be entered in the Register Number.
  - 2. Preceding zeros, if any, will not be printed. For example, if "001234" is entered, "No. 1234" will be printed.
  - 3. The Register Number set here will be printed on the second line below the Store Name Stamp print (just below the Date print line) on every receipt to be issued.



# 15. Optional Key Setting

This chapter introduces optional keys (keys not installed on the current Standard Keyboard) that can be programmed. Please note, however, that adding an optional key means to sacrifice another key already installed. If you plan to install any of the Optional Keys or change locations of any of the current keys, this operation must be performed first before any other programming or setting operation (refer to NOTE 9 at the end of this chapter).

## List of Keys

\*1

The following is the list of the all the keys that can be programmed on the keyboard. Numeric Keys 0 to 9 are fixed as to their locations, therefore, not included in the list. The "Key Code" assigned to each key in the list is used in the setting procedure below. For detail functions and operations of each key, refer to Chapter "17. Settings and Operations Relating to Each Key". For a brief information of the Optional Keys, refer to NOTE 8 at the end of this chapter.

•••••	Keys that must be installed as minimum requirement
	Keys that are already installed on the Standard Keyboard
• • • • • • • • • • • • • • • • • • • •	Optional Keys

(All those keys, not only the Optional Keys, can be eliminated or changed as to their locations on the keyboard. However, please do not eliminate the keys of minimum requirements.)

Key Code	Key Name	Key Code	Key Name
0	Code to deactivate the key.	84	PO (Paid Out)
1 to 10	Department Keys 1 to 10	85	NS (No-sale)
1 to 15	Department Keys 11 to 15	87	LC OPEN (Listing Capacity Open)
61	RF (Receipt Feed)	90	# (Non-add Number Print)
62	JF (Journal Feed)	91	#/NS (Non-add Number/No-sale)
69	00 (Double-zero)	92	PLU (Price-Look-Up)
66	(Decimal Point)	93	@/FOR (At/For; Multiplication)
69	DOLL DISC (Dollar Discount)	94	RECEIPT ISSUE (Post-receipt)
70	% + (Percent Charge)	95	C (Clear)
71	% - (Percent Discount)	97	TX/M or TX1/M (Tax 1 Modifier)
72	RTN MDSE (Returned Merchandise)	98	TX2/M (Tax 2 Modifier)
73	ITEM CORR (Item Correct)	99	TXBL TL (Taxable Total)
74	VOID (Void)	101	EX (Tax Exempt)
75	ALL VOID (All Void)	108	AMT (Amount)
76	AT/TL (Cash Tender/Total)	115	GST/M (GST Modifier)
777	CHK TEND (Check Tender)	121	CUR or CUR1 (Foreign Currency 1)
78	Chg (Charge Total)	122	CUR2 (Foreign Currency 2)
82	ST (Subtotal)	127	LOG/RECEIPT (Log/Receipt)
83	R/A (Received-on-Account)		

- \*1. At least one Department Key is required to be installed.
- \*2. The [#/NS] key has both [#] and [NS] functions. Therefore, when [#/NS] is installed, neither [#] nor [NS] are necessary.

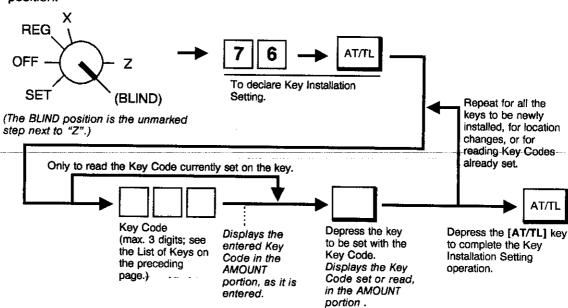
## **Key Installation Setting**

#### **Condition for Setting:**

After all Daily and Periodical Resets (refer to "NOTE on Condition" on page 22.)

#### **Setting Procedure:**

Use the **S Key** to turn the Control Lock to the "**BLIND**" position.



# Blank Keyboard Sketch (for your planning aid)

Fill in: Key Name → Key Code →	(	)	( )	( )	( )	( )	( )	( )	( )
(Refer to the "List of Keys" on the preceding page)	(	)	(	)	( )	( )	( )	( )	( )
For the Standard Keyboard Layout,	(	)	7	8	9	( )	( )	( )	( )
refer to Chapter "9. Keyboard".	(	)	4	5	6	( )	( )	( )	( )
	(	)	1	2	3	( )	( )	( )	( )
	(	)	0	( )	( )	( )	( )	AT	TL.

- NOTES 1. If Key Installation Setting is operated for the first time, all the keys are already set as in the Standard keyboard Layout. Therefore, set only the keys that are to be changed as to their locations or newly installed.
  - 2. If a wrong code has been entered and the key has also been depressed (i.e., a wrong code has been set on a key), enter the correct code and depress the key. The code entered last will be effective.
  - 3. If "0" is entered as Key Code, the key will be dead and its memory will also be closed.
  - 4. Each of the keys programmed in this operation will have its memory (if any) opened automatically.
  - 5. The [C] key, if once set with Key Code 95, may be used to clear an error, but it cannot be used immediately after a Key Code entry (for the purpose of clearing the wrong Key Code error). If any Key Code is entered and then the [C] key is depressed, that Key Code will be set on the key that was once the [C] key.
  - 6. On depressing the final [AT/TL] key, "0.00" is displayed in the AMOUNT portion, indicating that the setting operation is completed. No printing occurs.
  - 7. Use the Blank Keyboard Layout on the preceding page, if necessary, for your own keyboard plan before starting the setting procedure.
  - 8. Brief Information on Optional Keys:

#### Department Keys 11 to 15

Install additional Department Keys if the current Department Keys (1 to 10) are not enough to classify the merchandise in your store.

[VOID] (Void Key)

It can delete an item entered before the last item within a sale, which cannot be deleted by the [ITEM CORR] key.

[ALL VOID] (All Void Key)

It is used to cancel the contents in the current sale all at once.

[NS] (No-sale Key), [#] (Non-add Number Print Key)

These keys are not necessary if the [#/NS] key is installed. If the [#/NS] is not installed, those keys should be separately installed for Non-add Number printing and No-sale entries respectively.

[TX2/M] (Tax 2 Modifier Key)

It is necessary in the dual-tax (PST) area, in addition to [TX1/M], for reversing the Tax 2 taxable/non-taxable status of items.

[TXBL TL] (Taxable Total Key)

It simply reads the Taxable Total (sale total amount + taxes due) during a sale. Since the [ST] can have the same function, it is usually not necessary. However, when the [ST] is programmed to be used to obtain the sale total amount without taxes, [TXBLTL] is necessary.

[GST/M]

It is necessary in the GST-applicable area in Canada. It reverses the GST taxable/non-taxable status of items.

[CUR2]

An additional Foreign Currency key besides [CUR] (or [CUR1]).

9. If any of the following keys are newly installed or its location is changed, its relevant programming operations are further required (even if once programmed, reprogramming is necessary because the program data has been cleared):

Each Department Key ... Department Status, LC (if required), Preset Prices (if required) of the Department

[PLU] ... PLU Table

[TX(1)/M], [TX2/M], [GST/M] ... Respective Tax Tables or Rates (Tax 1, Tax 2, GST) [%+], [%-] ... Respective Preset % Rates (if required)

[CUR1], [CUR2] ... Respective Foreign Currency Exchange Rates

# 16. Daily Operation Flow

The following shows a typical daily operation flow on the register.

## Reference Before Opening the Store ... Chapter Ensure that the register is firmly plugged in the wall outlet. 5 Check if enough portions of Receipt and Journal rolls are left. 10 Check the time, date, and print condition. Check the time, date, and print by 000 000 issuing a No-sale Receipt. 17 Setting the time or date 12 **During Business Hours ...** Opening the store Transaction entries on the register 17 • Taking Read (X) Reports periodically. 18 Closing the store After Closing the Store ... Taking Daily Reset (Z) Reports 18 Tear off the print portion of Journal Paper (optional). 21 Leave the drawer open, and turn the Mode Lock to "OFF". 21 Take all the cash and other contents from the drawer to the office with the

torn Journal and printed Reset Reports.

# 17. Setting Preparation of Each Key and Transaction Entries

This chapter describes individual key operations on transaction entries, and setting requirements for the key if necessary.

Before starting actual transaction entries, the following are important operations using the [LOG/RECEIPT] key.

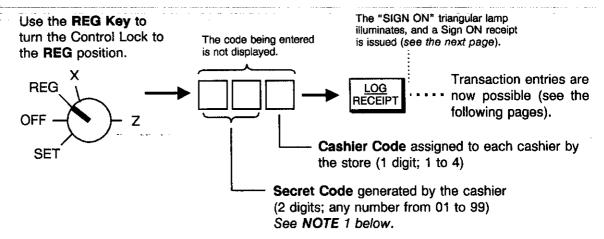
## Cashier Sign ON & Sign OFF



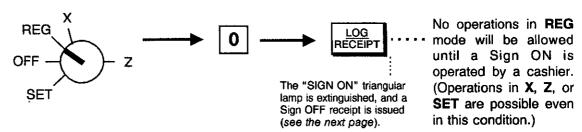
(LOG/RECEIPT Key)

A cashier needs to "sign ON" for starting transaction entries on the register and identifying the operator. The signed-ON condition is held until a "sign OFF" is operated. A cashier can sign ON only when the register is in the signed-OFF condition.

#### Sign ON (operable in signed-OFF condition)



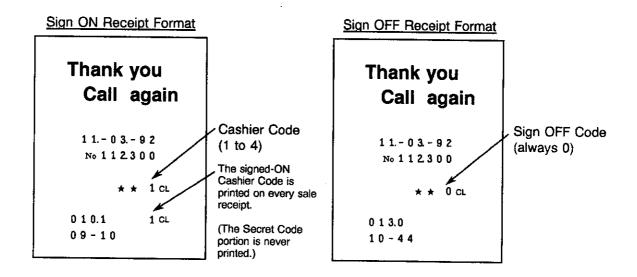
#### Sign OFF (operable in signed-ON condition)



NOTES 1. The two-digit Secret Code portion, once entered for a cashier's Sign ON, is set in the memory of the register. The Secret Code of the same cashier is checked every time his/her Sign ON is operated until the Daily Financial Reset Report is taken at the end of the day. Then the Secret Code is reset and a new Secret Code entry will be allowed.

When the Secret Code is within the range of 01 to 09, it is omissible to enter the preceding zero.

2. If the [LOG/RECEIPT] key is simply depressed without a prior numeric entry, the Receipt ON/OFF function is activated (refer to the next page) but not Sign ON/OFF.

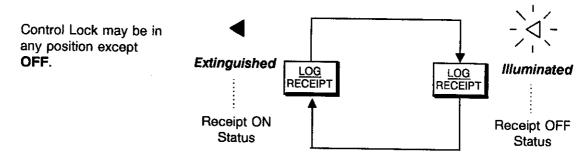


# Receipt-issue/Non-issue Selection



Receipts are issued or not issued according to the "R OFF" triangular lamp illuminated/extinguished status on the Operator Display panel.

## "R OFF" (Receipt OFF) Lamp Status Change Operations

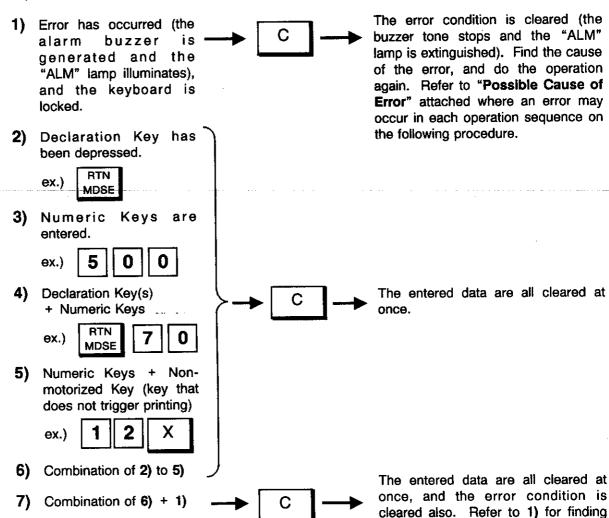


- NOTES 1. The Control Lock may be in any position (except OFF position) for changing the Receipt ON/OFF status in the signed-ON or signed-OFF condition.
  - 2. The "R OFF" lamp status at the starting of a transaction entry decides whether a receipt will be issued for the transaction or not. Switching the Receipt ON/OFF status during a transaction will not be effective.
  - 3. If a transaction entered with the "R OFF" lamp extinguished and finalized but a receipt is required, the [RECEIPT ISSUE] (Post-issue Receipt) key can be operated to issue a receipt (see "Post-issue Receipt" on page 76).
  - 4. Simply depress the [LOG/RECEIPT] key without a numeric entry. If the key is depressed with a prior numeric entry in REG mode, it may turn out to be a Sign ON or Sign OFF operation (refer to the preceding page).

# Clearing Errors, or Clearing Wrong Declaration Key or Wrong Numeric Entries

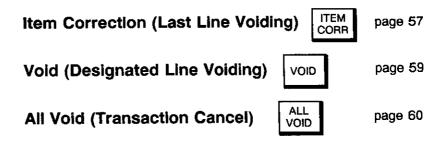
C (Clear Key)

When in sale entries an error has occurred with an alarm buzzer (beeps for about 2 seconds only), a wrong Declaration Key (such as [RTN MDSE], [TX/M], [GST/M], etc.) has been depressed, or a wrong numeric data has been entered; depress the [C] key.



NOTE When data is already entered and printed (through a Department Key, etc.), it cannot be cleared by the [C] key any longer. In need of deleting such data, see the following:

the cause of error.





#### **Programming Department Keys**

These are department keys through which sales items are registered. A maximum of 15 keys may be installed (**Depts 11 to 15** are optional keys).

#### **Programming Department Status:**

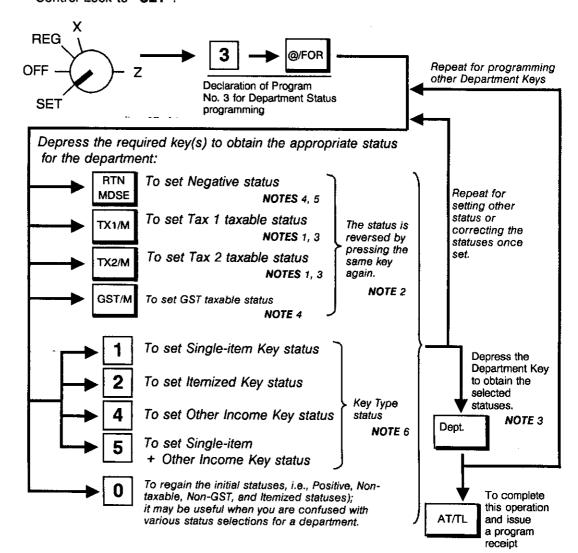
To use Department Keys, first program how each Department Key is to be used, in accordance with merchandise categories, taxation, operativity of the key, etc.

Condition: After Daily Financial Reset and Periodical Financial Reset for Positive/Negative Status Change, or
Any time outside a sale for other status changes
(refer to "NOTE on Condition" on page 22)

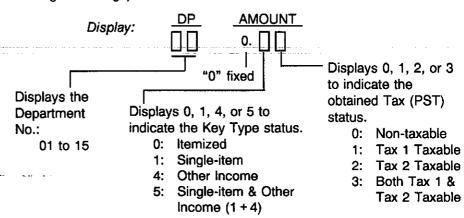
#### **Programming Procedure:**

Use the MA Key to turn the Control Lock to "SET".

As for items marked with "NOTE", refer to the corresponding NOTE No. on the next page for further description.



- NOTES 1. The tax tables of "Tax 1", "Tax 2", and "GST" should be programmed in Chapter "13. Tax Table Setting". Those tax tables will become effective in REG mode for adding the taxes to sale items entered through a Department Keys only when the Department Key is programmed with taxable status for the required tax in this operation.
  - 2. Every time each of the [RTN MDSE], [TX1/M], [TX2/M], and [GST/M] keys in this operation is pressed, the preset status is reversed. For example, if a Department Key is already set with "Tax 1 Taxable" status and the [TX1/M] key is pressed during the setting sequence of that Department Key, it is now set with "Tax 1 Non-taxable" status. If [TX1/M] is again pressed, "Tax 1 Taxable" status is again obtained.
  - 3. The tax (PST) status obtained (as the result of [TX1/M] and/or [TX2/M] depressions) can be verified by reading the numeric value displayed in the rightmost digit of the AMOUNT portion when the individual Department Key is pressed. Similarly, the Key Type status is displayed in the 2nd digit (next to the rightmost digit).



(These status codes are also printed on the program receipt issued when the final [AT/TL] key is pressed; refer to the Receipt Format on next page.)

- 4. The Negative/Positive status and GST status can only be verified on the program receipt (refer to next page) but not in the display. If a wrong status has been set, correct it by performing the programming operation again.
- 5. If a Department Key is set with Negative status, an amount entered through that key is subtracted from the sale total. It may be used for item entries of coupons, returned bottles, etc.
- 6. Key Type Description

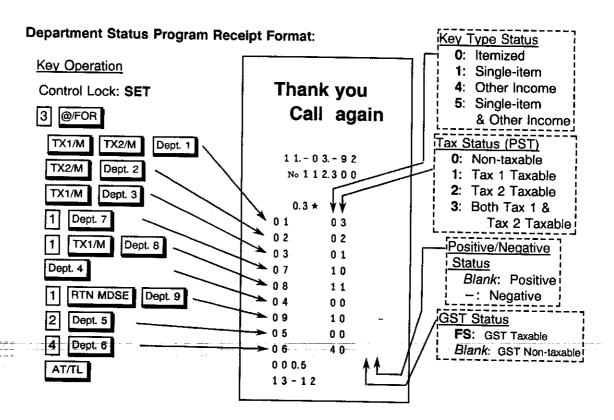
Itemized Key:

When a sale item amount is entered through this key, the sale is not finalized until a media key (such as [AT/TL]) is operated. Other items can be entered within one sale receipt sequence.

Single-item Key:

A sale item entry through this key will automatically finalize the sale as cash outside a sale (i.e. when no other items have been entered within one receipt sequence). However, it will function just as an Itemized Key if operated inside a sale.

Other Income Key: It is used to enter items which do not directly become sales for the store, such as lottery, postage, gift wrapping fee, size adjustment fee, utility (payment of electricity and gas), and donation.

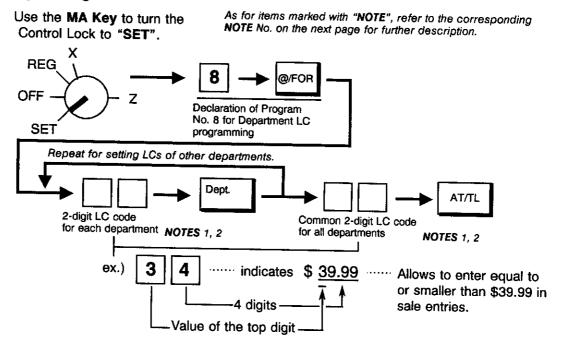


# Programming Department LCs (Listing Capacities):

The LC setting is used to check an amount limit error. By setting the LC, an amount entry (due perhaps to a mistake by the operator) will be prevented at the earliest stage (i.e. an error will result on entering an excessive amount through the department key).

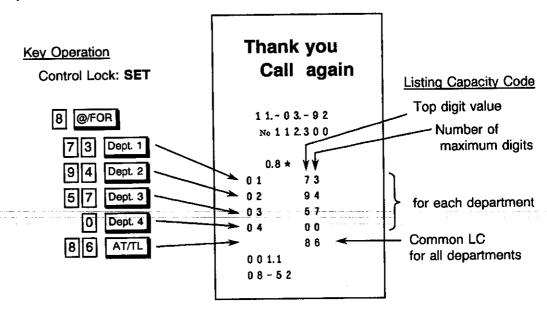
Condition: After Daily Financial Reset (refer to "NOTE on Condition" on page 22)

#### **Programming Procedure:**



- NOTES 1. If the individual LC of a department is set, it prevails over the common LC for all departments.
  - 2. To reset a LC once set, enter "0" in place of the 2-digit LC code. Then a maximum of 7-digit amount can be entered in sale entries.

#### **Department LC Program Receipt Format:**

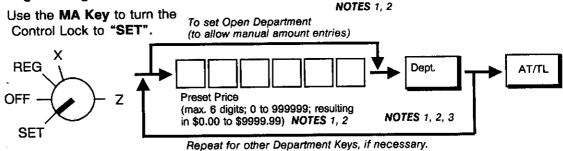


#### **Setting Department Preset Prices:**

If a fixed price is always entered through a Department Key in sale entries, a preset price can be set on the Department Key. Please note that once set with a preset price, the Department Key will not accept any other price (open price) until the Department Key is again programmed to be an open department.

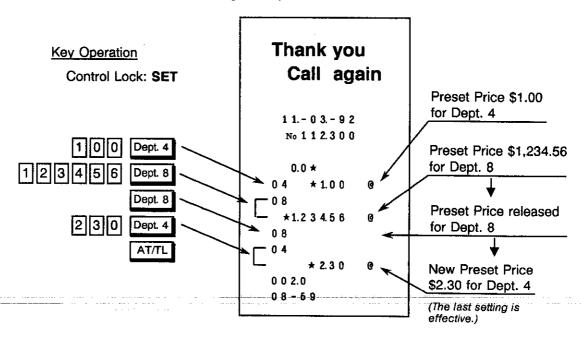
Condition: Any time outside a sale and signed off.

#### **Programming Procedure:**



- NOTES 1. All the Department Keys are open departments (no preset price set) as initial status.
  - 2. If a Department Key is pressed with no Preset Price entry, the Key is set as an open-price Department Key.
  - 3. If "0" is entered as Preset Price, the Department Key is set with Preset Price of \$0.00.

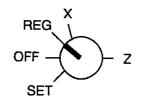
#### **Department Preset Price Setting Receipt Format:**



#### Sale Item Entries Using Department Keys

Various types of department entries are shown below.

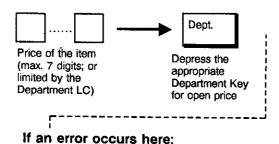
Use the REG Key to turn the Control Lock to "REG".



Cashier Sign ON is necessary. if the register is in signed-OFF condition. (Refer to the top of Chapter 17.)

#### Entry of One Item:

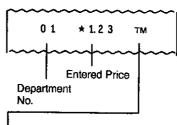
#### Open-price Department



Possible cause of error:

- The price entered exceeds the LC.
  - → See the Listing Capacity Open Entry.
- The Department Key is a preset-price key.
  - Use an open-price Department Key, or see the "Presetprice Department" entry procedure on next page.

# Receipt Print Format



Status Symbol

TM: Tax 1 or Tax 2 (PST) Taxable FM: GST Taxable

TMFM: Tax (PST) Taxable and

**GST Taxable** 

Blank: Not applicable to any of the

above status.

## Preset-price Department

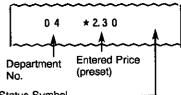


- If an error occurs here:

Possible cause of error:

- The Department Key is an open-price key.
   → Use a preset-price Department Key,
   or see the "Open-price Department"
  - or see the "Open-price Department" entry on the preceding page.

#### Receipt Print Format



Status Symbol

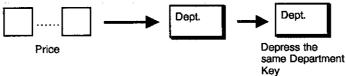
See the description for the Receipt

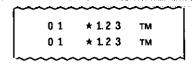
Print Format on the preceding page.

#### **Department Repeat Entry:**

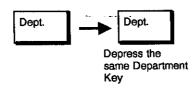
Depress again the Department Key used for the department item entry just entered. The item entry is repeated as many times as the Department Key is depressed. (A negative Department entry cannot be repeated.)

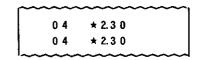






#### Preset-price Department Repeat



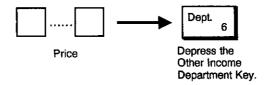


#### Other Income Department:

Other Income Department Key is used to enter items which do not directly become sales for the store, such as lottery, postage, gift wrapping fee, size adjustment fee, utility (payment of electricity and gas), and donation. Only the difference from ordinary Department Keys is that the amounts entered through this key are processed separately from the ordinary sales total (refer to Chapter "18. Read & Reset Reports").

The operation procedure is the same as ordinary (itemized) Department Keys.

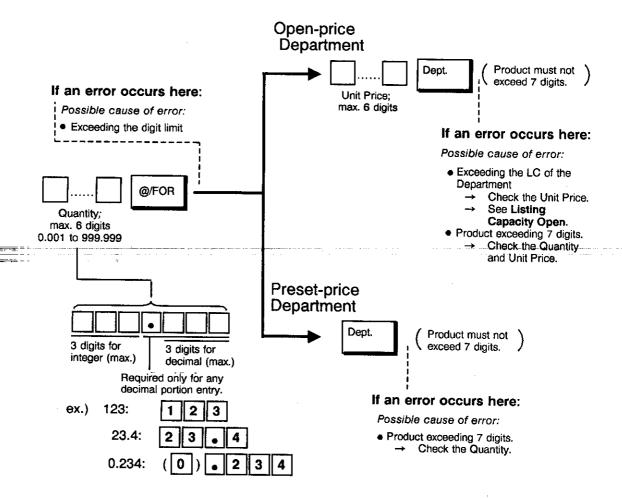
ex.) If **Dept. 6** is programmed with no preset price and status of "Other Income", "Itemized", "Non-taxable":





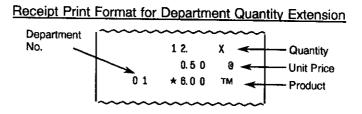
#### **Department Quantity Extension (Multiplication):**

When more than three or four items are to be entered with the same Department and price, the Quantity Extension (multiplication) is quicker than the Repeat Entry.



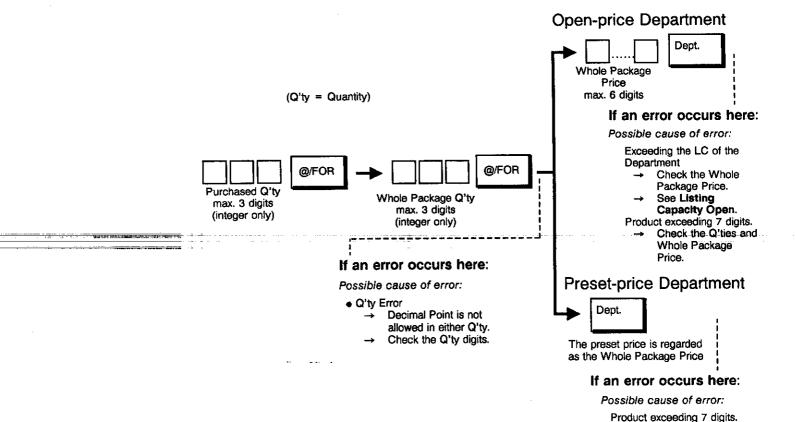
## NOTES 1. The product obtained by Quantity Extension cannot be repeated.

- 2. The decimal portion of the Quantity entry is processed down to the 2 digits below the decimal point. The fraction rounding at this time is fixed to ROUND OFF.
- You can select the rounding process of the fractions of the product (result of multiplication) -- ROUND OFF (initial setting), ROUND UP, or ROUND DOWN. (Refer to Chapter "19. System Option Setting" Address 2 - Bits 1 and 2.



#### Department SPP (Split-Package-Pricing):

This operation is used when a customer purchases only part but not all of the items in a package (example: only two tomatoes in a priced package of three tomatoes).

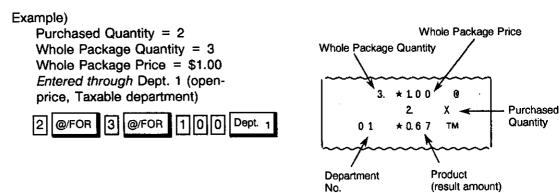


- NOTES 1. The product (final result amount) obtained by SPP (Split-Package-Pricing) cannot be repeated.
  - 2. The product must not exceed 7 digits.
  - 3. The rounding process of the fractions of the product resulted from the calculation is fixed to ROUND UP (the final result amount is rounded up).

→ Check the Q'ties.

4. SPP is not possible using PLUs.

#### Receipt Print Format for Department SPP



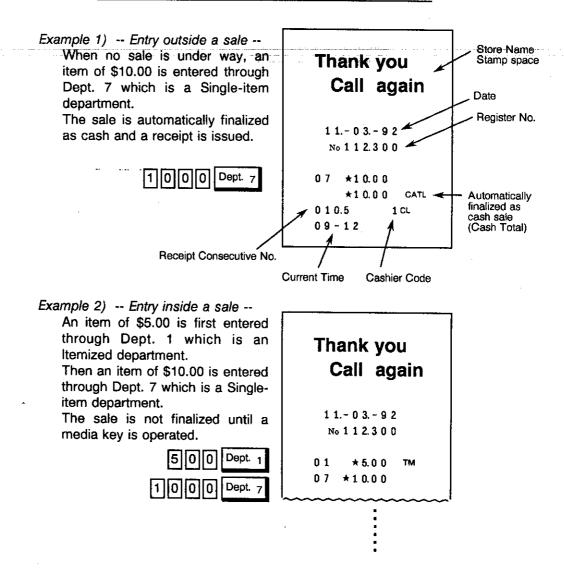
#### Single-item Department Entry:

If a Department Key is programmed with Single-item status, an entry through the key immediately finalizes the sale as cash and issues a receipt without operating a media key.

Such keys are operated in the same way as ordinary (itemized) Department Keys already described, except that Repeat Entry is not possible using Single-item Department Keys.

- NOTES 1. A sale item entry through this key will automatically finalize the sale as cash outside a sale (i.e. when no other items have been entered within one receipt sequence). However, it will function just as an Itemized Key if operated inside a sale.
  - 2. Quantity Extension and SPP are also possible using Single-item Department Keys.

#### Receipt Print Format for Single-item Department Entries



# PLU (Price-Look-Up)



(PLU Key)

A "PLU" is an individual merchandise item programmed with its own item code (PLU Code), its link department (and mostly with a Preset Price). By programming PLUs, you can enter an individual item by entering its PLU Code (which should be written on the price tag of the item), instead of entering the price through a Department Key. By taking PLUs Reports, you can analyze the sales data of each individual item. A maximum of 200 PLUs can be programmed.

#### **Programming PLUs**

#### **Programming PLU Table:**

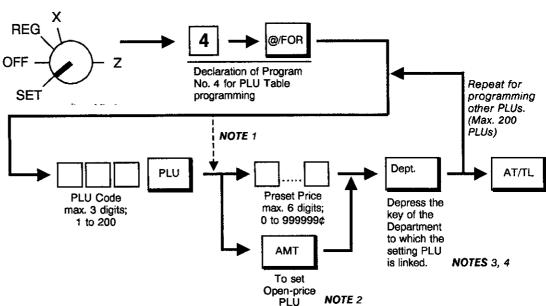
Condition: To change settings of a PLU: When the required PLU sales total memory is zero (i.e. when no sales are made or after a PLU Reset Report is taken to reset the sales data of the PLU into zero)

To add new PLUs: Any time outside a sale and signed off.

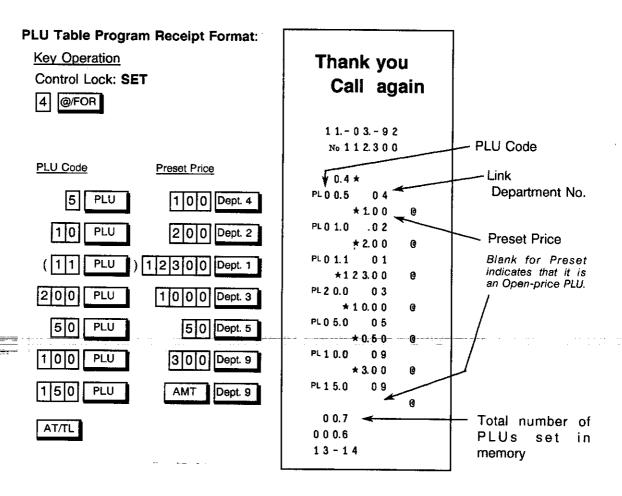
(refer to "NOTE on Condition" on page 22)

#### **Programming Procedure:**

Use the MA Key to turn the Gontrol Lock to "SET".



- NOTES 1. When sequentially programming the PLUs, the code specification can be omitted. When it is omitted at the very first PLU, PLU Code "1" is automatically assigned.
  - 2. An Open-price PLU always requires a price entry through Numeric Keys in sale entries, and may be used for an item that frequently changes its price.
  - The Department Key must <u>not</u> be an Other Income Department. If an Other Income Department Key is depressed, no error occurs here but will occur on entering the PLU in sale entries.
  - 4. The statuses (Positive/Negative Status, Tax (PST) 1 & 2 Status, GST Status, and Key Type Status except Other Income) of each PLU is decided by the statuses of the Department to which the PLU is linked.



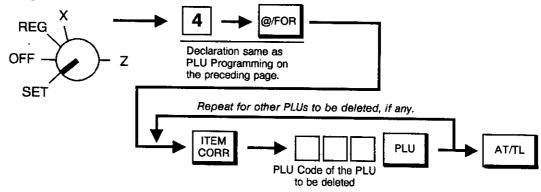
#### **Deleting Individual PLUs:**

When any of the PLUs once programmed are not handled any more in the store, they can be deleted.

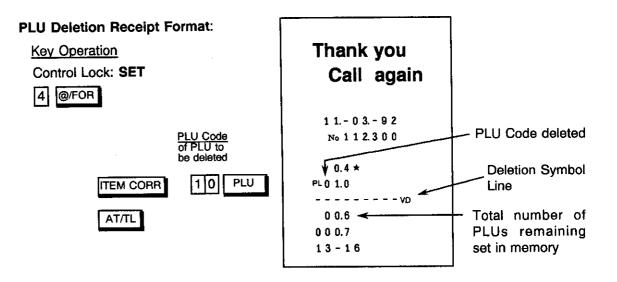
Condition: When the required PLU sales total memory is zero (i.e. when no sales are made or after a PLU Reset Report is taken to reset the sales data of the PLU into zero)

(refer to "NOTE on Condition" on page 22)

#### **Deleting Procedure:**



- NOTES 1. Deletions are possible PLU by PLU.
  - 2. If all the PLUs must be deleted (i.e., the PLU system itself is not necessary), close the [PLU] Key. (Refer to Chapter 15.)



#### Changing PLU Preset Prices:

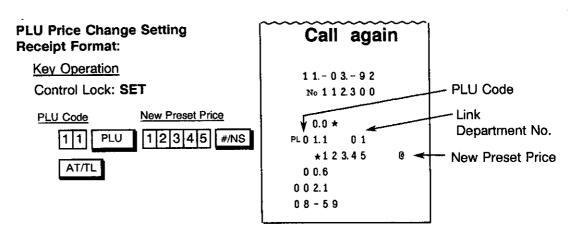
When only changing preset prices of PLUs as part of daily requirements, this operation is quicker than operating "Programming PLU Table".

Condition: Any time outside a sale and signed off.

#### **Programming Procedure:**

Use the MA Kev to turn the Control Lock to "SET". Repeat for other PLUs, if necessary. NOTE 3 REG #/NS **PLU Code New Preset Price** OFF Z max. 6 digits; max. 3 digits; 0 to 999999¢ 1 to 200 or SET NOTE 2 NOTE 1 AT/TL

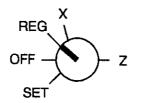
- NOTES 1. The PLU Codes must exist in the PLU table file already programmed.
  - 2. If "0" is entered as the New Preset Price, price of \$0.00 is set. Neither price setting nor changing is possible for Open-price PLUs in this operation.
  - 3. For sequentially accessing PLU Codes, the code specification can be omitted.



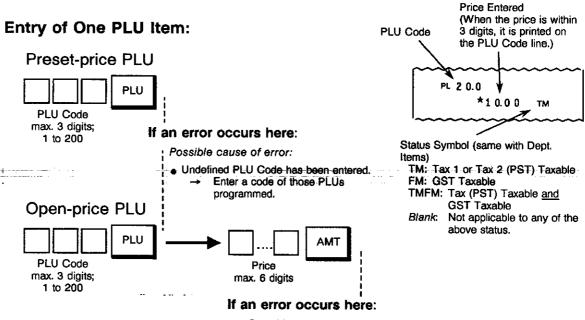
#### Sale Item Entries of PLUs

Various types of PLU entries are shown below.

Use the **REG Key** to turn the Control Lock to "**REG**".



Cashier Sign ON is necessary, if the register is in signed-OFF condition. (Refer to the top of Chapter 17.)

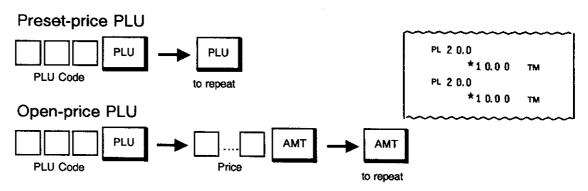


Possible cause of error:

- · Exceeding the price digit limit.
- → Check the price.
- The PLU Code entered is a Preset-price PLU.
  - In that case the PLU item is already entered and printed on the [PLU] key depression. Check if the PLU Code and the price are correct.

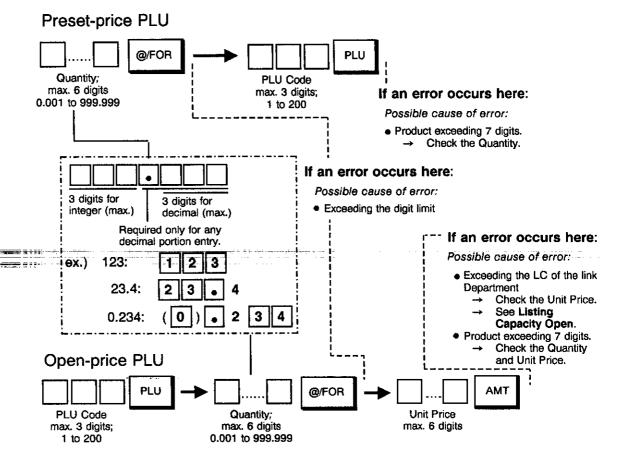
#### PLU Repeat Entry:

Depress again the last key of the sequence for "Entry of One PLU Item" above. The item entry is repeated as many times as the last key is depressed. (A negative PLU entry cannot be repeated.)



#### PLU Quantity Extension (Multiplication):

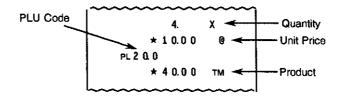
When more than three or four items are to be entered with the same PLU item, the Quantity Extension (multiplication) is quicker than the Repeat Entry.



NOTES 1. The product obtained by Quantity Extension cannot be repeated.

- The decimal portion of the Quantity entry is processed down to the 2 digits below the decimal point. The fraction rounding at this time is fixed to ROUND OFF.
- 3. You can select the rounding process of the fractions of the product (result of multiplication) -- ROUND OFF (initial setting), ROUND UP, or ROUND DOWN. (Refer to Chapter "19. System Option Setting" Address 2 Bits 1 and 2.)

#### Receipt Print Format for PLU Quantity Extension



#### Single-item PLU Entry:

If a Department Key is programmed with Single-item status, an entry through a PLU which links to the Department immediately finalizes the sale as cash and issues a receipt without operating a media key (just as the operation using a Single-item Department Key).

Such PLUs are operated in the same way as ordinary (itemized) PLUs already described, except that Repeat Entry is not possible using Single-item PLUs.

- NOTES 1. An item entry through such a PLU will automatically finalize the sale as cash outside a sale (i.e. when no other items have been entered within one receipt sequence). However, it will function just as an Itemized PLU if operated inside a sale.
  - 2. Quantity Extension is also possible using Single-item PLUs.

#### Receipt Print Format for Single-item PLU Entries

Example 1) -- Entry outside a sale --

When no sale is under way, a PLU item (PLU Code 101, Preset Price \$3.40, linking to a Single-item and Non-taxable department) is entered.

The sale is automatically finalized as cash and a receipt is issued.



# Thank you Call again

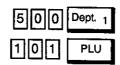
1 1.- 0 3.- 9 2 No 1 1 2.3 0 0

Example 2) -- Entry inside a sale --

An item of \$5.00 is first entered through Dept. 1 which is an Itemized department.

Then an item of PLU Code 101 (defined as in *Example 1*) above is entered.

The sale is not finalized until a media key is operated.



# Thank you Call again

1 1.- 0 3.- 9 2 No 1 1 2.3 0 0

01 \*5,00 TM PL 1 0.1 \* 3,40

# Listing Capacity Open



(Listing Capacity Open Key)

As for setting LCs, see "Programming Department LCs" in the "Department Keys" section.

When an item entry price exceeds the LC in sale entries, an error will result. To enter a price larger than the limit defined by the LC, use the [LC OPEN] key.

Depress

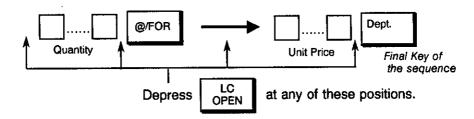


prior to or any time during the entry sequence of the following operations for Open-price Departments and PLUs already described:

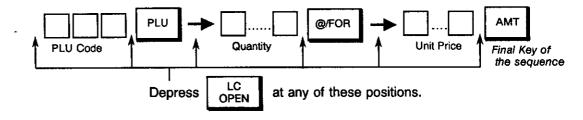
Entry of One Department Item
Department Repeat Entry
Other Income Department
Department Quantity Extension
Department SPP
Single-item Department Entry
Entry of One PLU Item
PLU Repeat Entry
PLU Quantity Extension
Single-item PLU Entry

Please note that the **[LC OPEN]** key must be pressed, at the latest, before the final key of the required Department or PLU entry sequence. The LC for the department or PLU will be extended with two higher digits for that entry only.

#### Example 1) Department Quantity Extension sequence:



#### Example 2) PLU Quantity Extension sequence:



# Percent Charge, Percent Discount

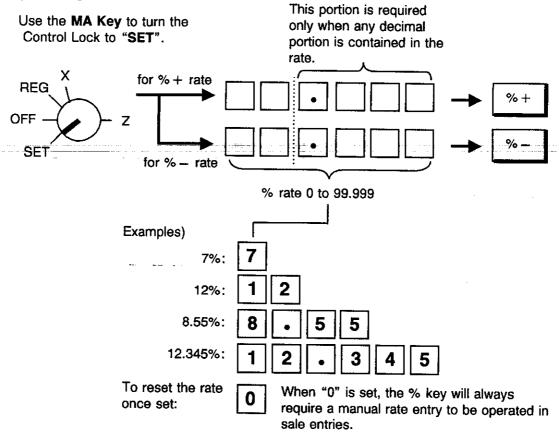
%+ (%+ Key) %- (%- Key)

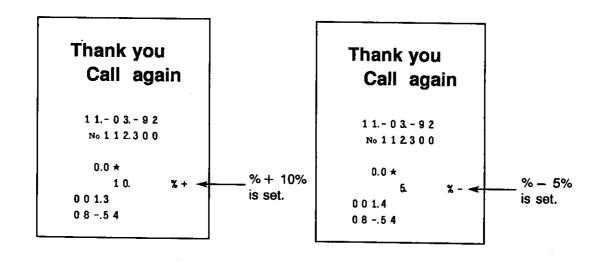
These keys are used to add or subtract a percent rate to or from an individual sale entry item or the entire sale. Each of the keys can function with a rate manually entered or a preset rate. To activate the preset rate entry, rate setting is necessary.

#### **Setting Preset Rate for % Keys**

Condition: Any time outside a sale and signed off.

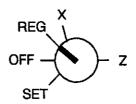
#### **Programming Procedure:**





#### % Key Operations in Sale Entries

Use the **REG Key** to turn the Control Lock to "**REG**".



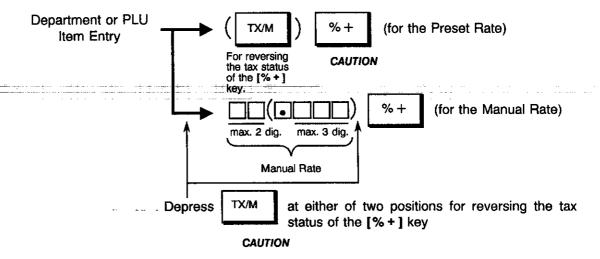
%+ Oper

**Operation Patterns** 

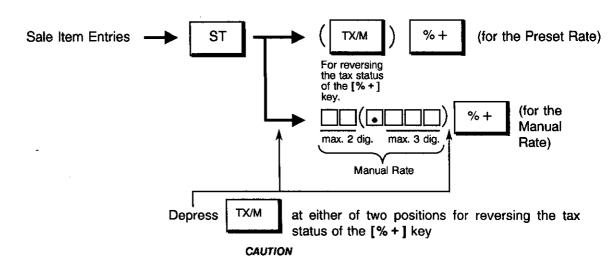


operates the same except that the calculated amount will subtract from instead of adding to the sale amount.

#### Percent Charge on a Department or PLU Item:



#### Percent Charge on Sale Total:

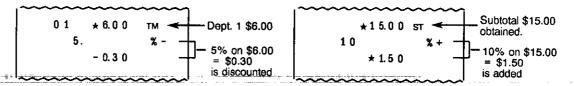


CAUTION: [% +], [% -] and [DOLL DISC] (see next page) keys are non-taxable by themselves (the tax is calculated based on an original price, not discount or premium price). In order to reverse the status, enter [TX/M] key before [% +], [% -] or [DOLL DISC] key entry.

- NOTES 1. When a rate is manually entered through a % key preset with a rate, the manual rate prevails.
  - 2. A % entry will cause an error if operated after an Other Income Department or Negative Department entry.
  - 3. A % entry after obtaining a Subtotal is usually allowed only once. However, it can be programmed to allow multiple times. (Refer to Chapter "19. System Option Setting", Address 16 Bit 2.
  - 4. You can select the rounding process of the fractions of the product (result of multiplication) -- ROUND OFF (initial setting), ROUND UP, or ROUND DOWN. (Refer to Chapter "19. System Option Setting" Address 2 Bits 1 and 2.)

#### Example of % Discount on Item

#### Example of % Charge on Sale Total

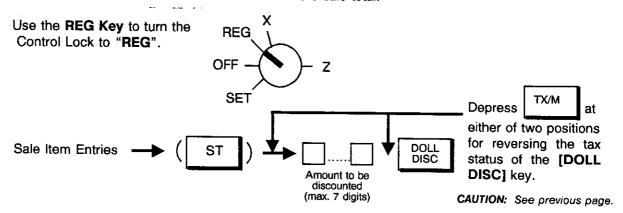


# **Dollar Discount**

DOLL DISC

(Dollar Discount Key)

Dollar Discount is used to subtract an amount from the sale total.



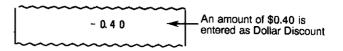
NOTE For entering a Dollar Discount that will cause the sale total into negative (credit balance), refer to Chapter "19. System Option Setting" Address 2 - Bit 3:

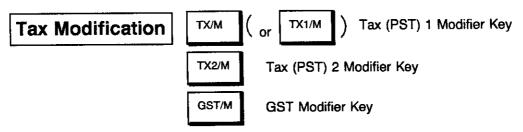
If status "Credit Balance Prohibited" (initial status) is selected:

Over-subtraction of the sale total by Dollar Discount causes an error. If status "Credit Balance Allowed" is selected:

Over-subtraction of the sale total by Dollar Discount is possible.

#### Example of Dollar Discount Entry





Each of these keys is used to reverse the tax status of a required Department or PLU item to be entered in a sale. It is also used to reverse the Non-taxable status of [%+], [%-], and [DOLL DISC] keys into Taxable status. The Modifier Keys are effective only for one entry.

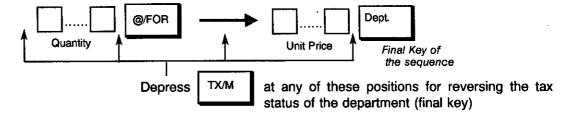
 Depress the required Modifier Key(s) prior to or any time during (before the final key at the latest) the entry sequence of the following operations for Departments and PLUs already described. More than one Modifier Keys can be depressed for the same item entry:

Entry of One Department Item
Department Repeat Entry
Other Income Department
Department Quantity Extension
Department SPP
Single-Item Department Entry
Entry of One PLU Item
PLU Repeat Entry
PLU Quantity Extension
Single-item PLU Entry

The tax status is reversed:

- Taxable → Non-taxable
- Non-taxable → Taxable

Example) Reversing Tax (PST) 1 status of a Department item **Department Quantity**Extension sequence:

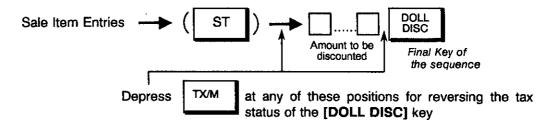


 Depress the required Modifier Key(s) prior to or any time during (before the final key at the latest) the entry sequence of the following operations for Departments and PLUs already described. More than one Modifier Keys can be depressed for the same item entry:

Percent Charge
Percent Discount
Dollar Discount
Taxable

The Non-taxable Status (not programmable) is reversed into Taxable.

Example) Reversing Tax (PST) 1 status of **Dollar Discount** entry:

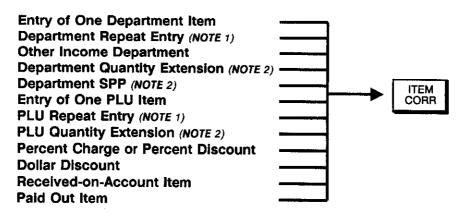


# Item Correction (Last Line Voiding)

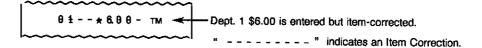


(Item Correct Key)

The last line item (any of the following items that has just been entered within the current transaction) can be deleted by the [ITEM CORR] key.



- NOTES 1. When the [ITEM CORR] key is depressed after repeated items, only the last item of the repeated is deleted, decrementing the "RPT" count in the display.
  - 2. When the [ITEM CORR] key is depressed after a Quantity Extension or SPP, the entire product (result of the calculation) is deleted.
  - 3. Negative Department, Negative PLU, Void, Returned Merchandise items cannot be deleted by the [ITEM CORR] key. Neither can any media amount be item-corrected even if it is short-tendered.
  - 4. When the [C] key is used to clear any numeric data, the item-correct function is still active for the preceding item. However, if the [C] key is used to clear an error, the preceding item can no longer be item-corrected.



#### **Returned Merchandise**

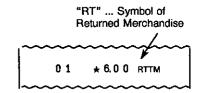
RTN MDSE

(Returned Merchandise Key)

A Department or PLU item once purchased (i.e. the sale is already finalized) then returned by a customer can be entered as a Returned Merchandise item. If the [VOID] key is not installed on your register, this function may also used as Void entry (refer to Void entries on the next page).

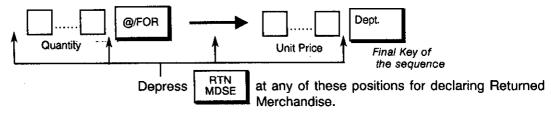
 Depress the [RTN MDSE] key prior to or any time (before the final key at the latest) during a required Department or PLU item entry sequence. (The only difference is a depression of the [RTN MDSE] key):

> Entry of One Department Item Other Income Department **Department Quantity Extension** Department SPP Single-item Department Entry Entry of One PLU Item **PLU Quantity Extension** Single-item PLU Entry



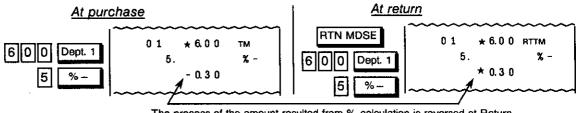
(Repeat entry is not possible using the [RTN MDSE] key.)

Items once entered through an Open-price Department in a Quantity Extension Example) sequence at purchase are now returned:



 When an item once purchased with a Percent Charge or Percent Discount is returned, the item can be returned with the Percent Charge/Discount by attaching the [RTN MDSE] key to the same entry procedure as purchase:

Example) Dept. 1, \$6.00 with 5% discount, purchased and returned.



The process of the amount resulted from % calculation is reversed at Return.

- NOTES 1. The Returned Merchandise entries are possible outside as well as inside a sale.
  - 2. Over-subtraction of the sale is allowed for Returned Merchandise entries.
  - 3. Neither Negative Department nor Negative PLU items can be entered as Returned Merchandise.
  - 4. A Returned Merchandise cannot be item-corrected.

# Void (Designated Line Voiding)

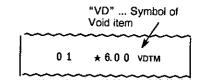
VOID

(Void Key)

A Department or PLU item entered before the last item but canceled in the current sale (which can no longer be deleted by [ITEM CORR]) is entered as a Void item using the [VOID] key. If this key is not installed on your register, the [RTN MDSE] key may be used for voiding purposes (refer to the preceding page). If both [VOID] and [RTN MDSE] are installed, [VOID] should be used to cancel (delete) an item already entered within the current transaction while [RTN MDSE] should be used to record an item that was purchased in a past sale and is now returned.

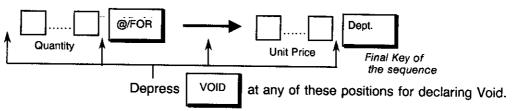
 Depress the [VOID] key prior to or any time (before the final key at the latest) during a required Department or PLU item entry sequence. (The only difference is a depression of the [VOID] key):

Entry of One Department Item
Other Income Department
Department Quantity Extension
Department SPP
Single-Item Department Entry
Entry of One PLU Item
PLU Quantity Extension
Single-Item PLU Entry



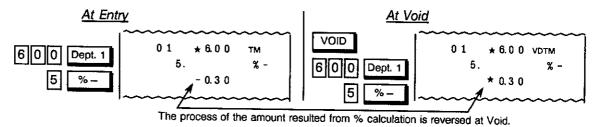
(Repeat entry is not possible using the [VOID] key.)

Example) Items once entered through an Open-price Department in a Quantity Extension sequence at purchase are now voided:



• When an item previously entered with a Percent Charge or Percent Discount is canceled, the item can be voided with the Percent Charge/Discount by attaching the [VOID] key to the same entry procedure as the previous entry:

Example) Dept. 1, \$6.00 with 5% discount entered then voided in a sale:

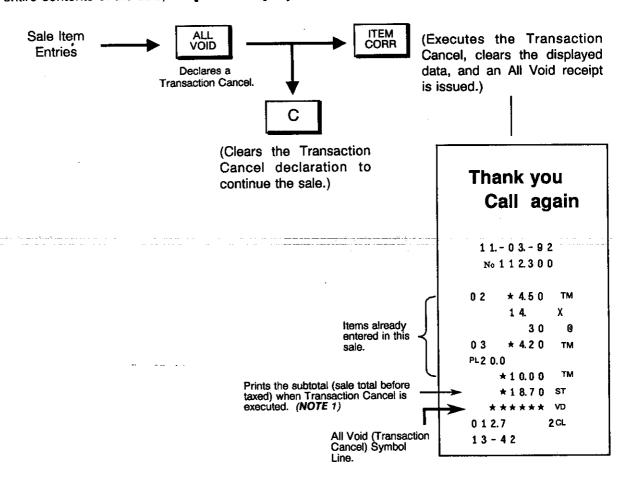


- NOTES 1. The Void entries are usually possible only inside a sale. However, when the option "Credit Balance Allowed" is selected, they are allowed outside a sale as well and over-subtraction of the sale is also allowed. (Refer to Chapter "19. System Option Setting", Address 2 Bit 3.)
  - 3. Neither Negative Department nor Negative PLU items can be entered as Void items
  - 4. A Void entry cannot be item-corrected.

# All Void (Transaction Cancel)



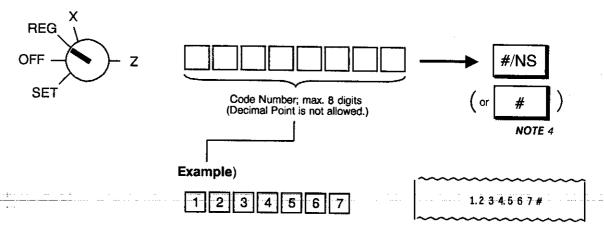
When some items have already been entered in the current sale and the customer cancels the entire contents of the sale, the [ALL VOID] key is used.



- NOTES 1. The sale is canceled; therefore, no payment should occur. However, subtotal amount printed on the All Void receipt is processed into the "All Void" total of the report memory.
  - 2. The All Void operation is no longer acceptable when any media key (such as [AT/TL]) is entered including short-tendering.
  - 3. If Tax Exempt (using the [EX] key) is entered, the sale can no longer be all-voided.
  - 4. The All Void function is not effective for Received-on-Account or Paid Out transactions.

# | Mon-add Number Print | #/NS | (Non-add Number Print / No-sale Key) | # (Non-add Number Print Key)

When any code number is to be recorded for future reference, such as a Check No., Customer No., Credit Card No., House Charge Account No., etc., a Non-add Number Print function is used.



- NOTES 1. A Non-add Number can be entered at the starting of a sale or any time during a sale if it is not finalized. It is operable any number of times within a sale. However, when operated at the starting, a transaction entry must follow.
  - 2. The entered number will not affect any sales data. It is merely a print for reference.
  - 3. The preceding zeros, if any, will not be printed. For example, if "012300" is entered, "12300" is printed.
  - 3. Usually, Non-add Number entries are allowed at the starting of a No-sale transaction (i.e, Non-add Numbers can be printed on a No-sale receipt). However, a No-sale entry can be programmed to be prohibitive after a Non-add Number entry (refer to Chapter "19. System Option Setting", Address 15 Bit 1).
  - 4. The [#/NS] key operates and functions the same. When this key is simply depressed without a prior numeric entry in REG mode, it functions as the [NS] (No-sale) key. (Refer to the section of No-sale Transaction.)

#### **Subtotal Read & Print**

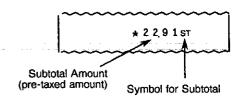
ST

(Subtotal Key)

When the sale total of the current sale is to be read by the customer's request or the operator's requirement, the [ST] key is used.



The sale total of the items so far entered is displayed in the AMOUNT portion with the "ST" triangular lamp illuminated. At the same time, the sale total is printed. The sale is not finalized yet.



- NOTES 1. When the [ST] key is depressed, the sale total is displayed and printed. However, you can select not to print (display only) by a system option. (Refer to Chapter "19. System Option Setting" Address 1 Bit 3.) Even if this non-print option is selected, the subtotal amount is automatically printed when a Percent Charge/Discount or Dollar Discount entry follows a subtotal entry.
  - 2. The displayed subtotal amount includes the taxes due (Tax 1, Tax 2, & GST) while the printed subtotal amount is the pre-taxed amount (amount not including taxes due). As for the displayed amount, you can select to display the pre-taxed amount by a system option. (Refer to Chapter "19. System Option Setting" Address 15 Bit 4.) This option is recommended only when both [ST] and [TXBLTL] (Taxable Total) keys are installed. In that case, [ST] displays pre-taxed amount while [TXBLTL] displays post-taxed amount (amount including taxes due).
  - 3. If the option "Taxable Total Compulsory" is selected with the function of subtotal display including taxes due (refer to NOTE 2 above), the [ST] key must always be depressed before operating media keys for finalizing a sale.
  - 4. When the [ST] key is depressed more than once consecutively, the subtotal amount is only displayed but no print occurs from the second time one. If the [C] key is operated to clear a numeric entry or error, etc. after a subtotal is once obtained, the subtotal amount is again displayed.

#### **Taxable Total Read**

TXBL TL

(Taxable Total Key)

This is an Optional Key, used only to display the Taxable Total (sale total including taxes) during a sale. The key is usually not necessary since the [ST] key contains this function. If it is installed, however, it is recommended to program the [ST] key to display the pre-taxed amount (for distinguishing it from the [TXBL TL] key function). Refer to NOTE 2 attached to the section of "Subtotal Read & Print" on the preceding page.



The sale total of the items so far entered is displayed in the AMOUNT portion with the "ST" triangular lamp illuminated. The sale total amount displayed includes taxes due (Tax 1, Tax 2, & GST). No print occurs. The sale is not finalized yet.

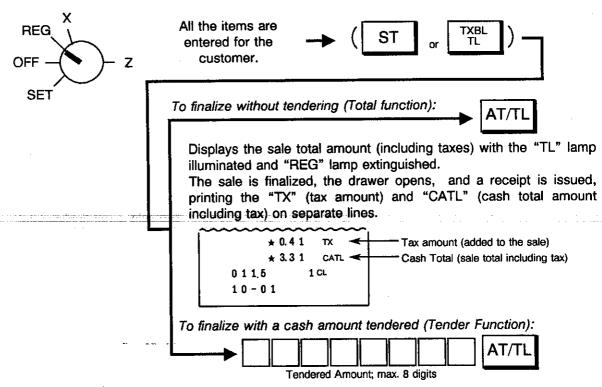
- NOTES 1. If the option "Taxable Total Compulsory" is selected, the [TXBL TL] key must always be depressed before operating media keys for finalizing a sale.
  - 2. If the [C] key is operated to clear a numeric entry or error, etc. after a Taxable Total is once obtained, the Taxable Total amount is again displayed.

# Cash Total, Cash Tender

AT/TL

(Cash Amount Tender/Total Key)

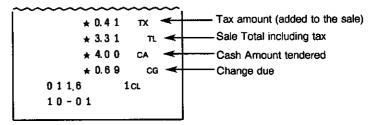
When sale items have all been entered and the customer will pay in cash, this key finalizes the sale and issues a receipt. When the customer will pay in other media (non-cash media), refer to the next section "Non-cash Media Total, Non-cash Media Tender".



When the amount tendered is equal to or larger than the sale total:

Displays the amount of change due with the "CG" lamp illuminated.

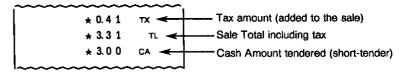
The sale is finalized, the drawer opens, and a receipt is issued, printing the "TX" (tax amount), "TL" (sale total including tax), "CA" (cash amount tendered), and "CG" (change due).



When the amount tendered is smaller than the sale total:

Displays the balance due (shortage).

Prints "TX", "TL", and "CA"(short-tendered cash amount). The sale is not finalized. (Refer to the section "Multi-tender, Split-tender".)



- NOTES 1. The [AT/TL] key functions as Total Key if simply pressed, or as Tender Key if pressed with a prior amount entry. However, it can be programmed to be used as Tender Key only (refer to Chapter "19. System Option Setting", Address 6- Bit 1).
  - 2. When the sale total is zero or negative, only the Total Key function is effective regardless of the key option selection described in **NOTE** 1 above.
  - 3. When the option "Taxable Total Compulsory" (refer to Chapter "19. System Option Setting", Address 2- Bit 4) is selected, the sale is finalized only after reading the sale total (by [ST] or [TXBL TL]).
  - 4. When the option "Short-tendering Prohibited" is selected (refer to Chapter "19. System Option Setting", Address 11- Bit 1), short-tendering is not possible.
  - 5. The [AT/TL] key is also used to finalize a Received-on-Account or Paid Out transaction. (Refer to the respective sections.)

#### Non-cash Media Total, Non-cash Media Tender

CHK TND (Ched

(Check Tender)

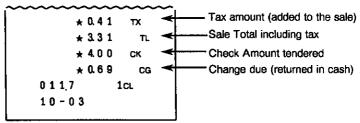
These keys are non-cash media keys to be used for finalizing a sale as alternative media. The keys operate the same as [AT/TL] key. (Refer to the section "Cash Total, Cash Tender".)

Chg

(Charge Total Key)

#### Finalizing a Sale as Check:

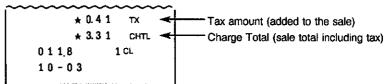
Use the [CHK TND] key instead of [AT/TL] for finalizing a sale paid for in check.



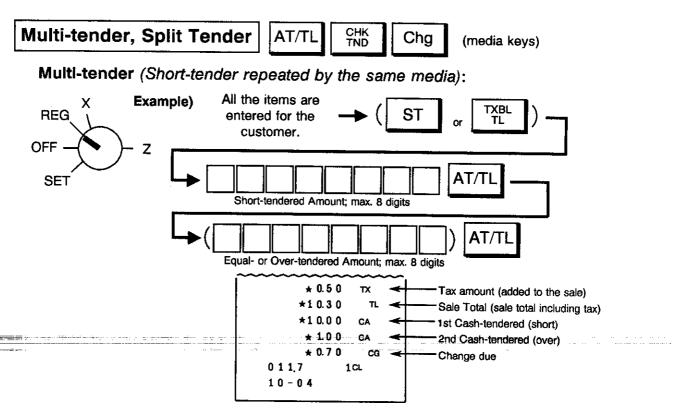
- NOTES 1. The [CHKTND] key functions as Tender Key only. However, it can be programmed to have both Tender and Total functions (refer to Section "19. System Option Setting", Address 7 Bit 1). Also, over-tendering can be programmed to be prohibited, if necessary (Address 7 Bit 4).
  - 2. When the key is programmed as Tender-only key, attempting to finalize a negative-balance sale will cause an error.
  - 3. When the option "Taxable Total Compulsory" (refer to Chapter "19. System Option Setting", Address 2- Bit 4) is selected, the sale is finalized only after reading the sale total (by [ST] or [TXBL TL]).
  - 4. When the option "Short-tendering Prohibited" is selected (refer to Chapter "19. System Option Setting", Address 11- Bit 1), short-tendering is not possible.
  - 5. When programmed as Tender-only Key and the option "Over-tendering Prohibited" is selected (refer to Chapter "19. System Option Setting", Address 7 Bit 4), over-tendering is not possible.
  - 6. The [CHK TND] key is also used to finalize a Received-on-Account or Paid Out transaction. (Refer to the respective sections.)

#### Finalizing a Sale as Charge:

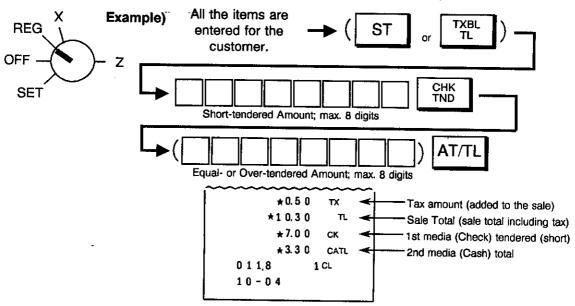
Use the **[Chg]** key instead of **[AT/TL]** for finalizing a sale to be processed as Charge account. The key may be used to finalize in any other media than cash and check, such as house charge, credit card, etc. (whatever media the store defines to be acceptable).



- NOTES 1. The [Chg] key functions as Total Key only. However, it can be programmed to have both Tender and Total functions (refer to Section "19. System Option Setting", Address 8 Bit 1).
  - 2. When the option "Taxable Total Compulsory" (refer to Chapter "19. System Option Setting", Address 2- Bit 4) is selected, the sale is finalized only after reading the sale total (by [ST] or [TXBL TL]).
  - 3. When the option "Short-tendering Prohibited" is selected (refer to Chapter "19. System Option Setting", Address 11- Bit 1), short-tendering is not possible.
  - When programmed as Tender-and-Total Key and the option "Over-tendering Prohibited" is selected (refer to Chapter "19. System Option Setting", Address 8- Bit 4), over-tendering is not possible.



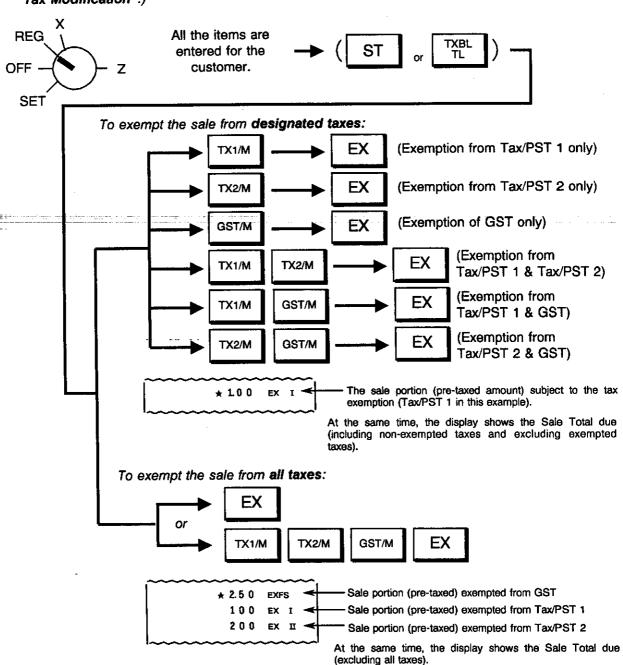
# Split-tender (Short-tender repeated by the different media):



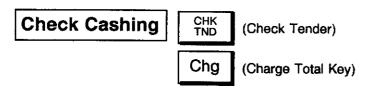
- NOTES 1. In both Multi-tender and Split-tender operations, the sale is finalized and a receipt is issued on reaching the sale total amount.
  - 2. Only the media keys programmed to have "Tender" function and to allow "Short-tendering" can be operated with a short-tendered amount entry in the above operation sequences.
  - 3. If a media key is depressed without an amount tender entry and is programmed to function as Total key, the sale is then finalized on that stage processing the balance at that moment into that media.

# Tax Exemption EX (Tax Exempt Key)

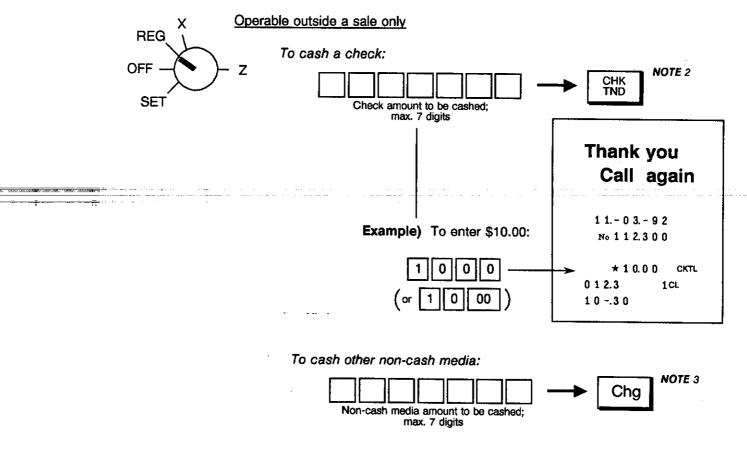
When an entire sale must be exempted from designated or all taxes (Tax/PST 1, Tax/PST 2, GST), the [EX] key is used near the end of the sale finalization. (To exempt an individual item from designated taxes, only Tax Modifier Keys are used in entering the item. Refer to the section "Tax Modification".)



- NOTES 1. The Tax Exempt entry cannot be item-corrected.
  - 2. After depressing the [EX] key, the sale must only be finalized (for payment through media keys).
  - 3. If the "Non-taxable Amount Limit" is set for certain areas in Canada, using the the [GST/M] key will cause an error and GST Exemption is not allowed.



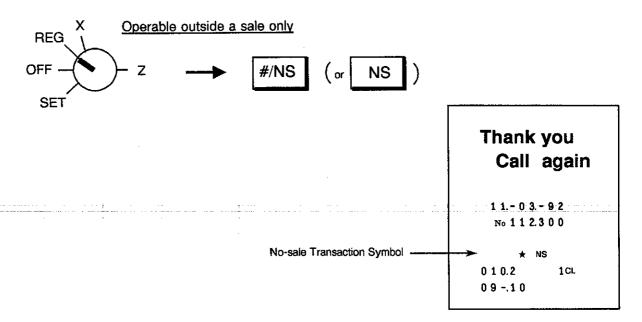
Check cashing requested by a customer is entered through a non-cash media key. It is operable only outside a sale (i.e. when no sale is underway on the register).



- NOTES 1. When the media key is depressed, the drawer opens to enable exchanging the check (or other non-cash media) into cash.
  - 2. The [CHK TND] key is programmed to prohibit cashing. To allow cashing using the key, it must be programmed to allow it. (Refer to Chapter "19. System Option Setting", Address 7 Bit 3.)
  - 3. Similarly, cashing using the [Chg] key is programmed to allow cashing. It can be programmed to prohibit cashing. (Refer to Chapter "19. System Option Setting", Address 8 Bit 3.)
  - 4. The cashing operation will not increment the No-sale Counter of the report memory.

No-sale #/NS (Non-add Number Print / No-sale Key) NS (No-sale Key)

The No-sale transaction is used to open the drawer without relating to a sale, for such purposes of giving changes (to break a large-amount bill), checking the receipt/journal print condition, date or time accuracy, etc. This operation must be performed outside a sale only.



- NOTES 1. The drawer opens, and a No-sale receipt is issued.
  - Usually, Non-add Number entries are prohibited at the starting of a No-sale transaction (i.e, Non-add Numbers cannot be printed on a No-sale receipt). However, a No-sale entry can be programmed to be allowable after a Non-add Number entry (refer to Chapter "19. System Option Setting", Address 15 -Bit 1).
  - 3 The [#/NS] key operates and functions the same. When this key is depressed with a prior number entry, it functions as the Non-add Number Print key. (Refer to the section of Non-add Number Print.)

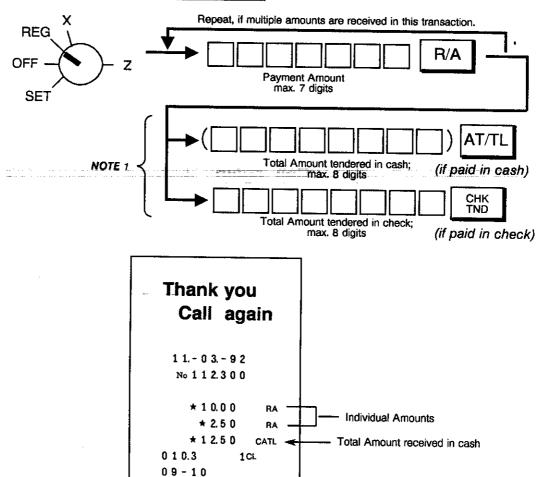
# Received-on-Account Payment

R/A

(Received-on-Account Key)

A received-on-account transaction is used to identify money which is in the drawer but not due to business. For example, a customer pays for a sale finalized as a charge on a past day, or the cashier records the change reserve in the drawer loaned from the store office. This operation must be performed outside a sale only.

### Operable outside a sale only

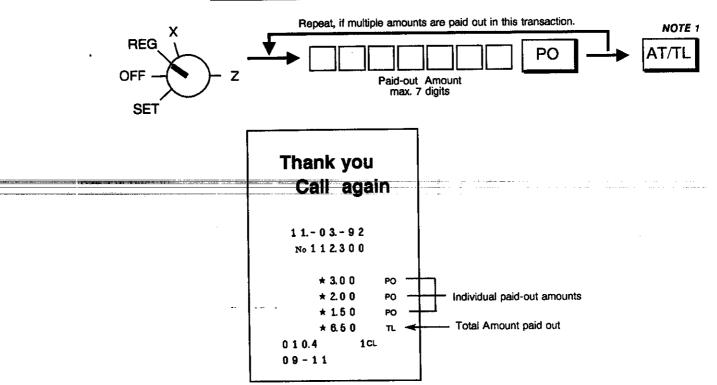


- NOTES 1. For finalizing the transaction, the [Chg] key cannot be used. For further operation using the media keys, refer to the sections "Cash Total, Cash Tender" and "Non-cash Media Total, Non-cash Media Tender". Also refer to the section "Multi-tender, Split-tender".
  - 2. The R/A Counter in the report memory increments on each [R/A] key depression.

# Paid Out PO

A paid-out transaction is used when an amount of money is removed from the drawer without relating to a sale, for the purpose of paying to wholesalers, etc. This operation must be performed outside a sale only.

#### Operable outside a sale only



- NOTES 1. For finalizing the transaction, only the [AT/TL] key can be used (i.e., only cash can be paid out) without entering a prior amount.
  - 2. The PO Counter in the report memory increments on each [PO] key depression.

### Sale Paid in Foreign Currencies



(Foreign Currency Keys)

Foreign currencies may be tendered for payment of a sale. A maximum of two Foreign Currency Keys are available; the **[CUR2]** key is an Optional Key. One currency should be assigned for each key.

### **Programming Foreign Currency Keys**

Before operating the keys, the following programming operations are necessary.

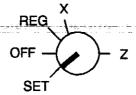
### **Setting Foreign Currency Exchange Rate:**

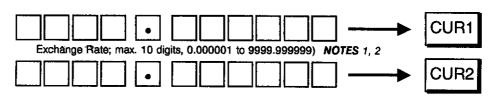
Set the exchange rate of the currency. Change the rate daily, if necessary.

Condition: Any time outside a sale and signed off.

#### **Programming Procedure:**

Use the **MA Key** to turn the Control Lock to the '**SET**" position.





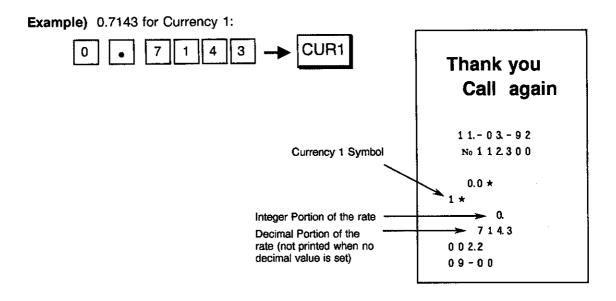
- NOTES 1. Obtain the rate by calculating in the subsidiary currency unit values for both the domestic and the foreign currency. (In case of calculating the rate from the domestic to a foreign currency with the same zero-suppress form, such as from U.S. \$ to French Franc, it will be no problem. However, in case of exchanging from a domestic currency such as U.S. \$ to a foreign currency such as Japanese yen, this rule must be obeyed; otherwise a wrong rate will result.)
  - Calculate the required foreign currency value equivalent to the domestic currency value "1". Then the obtained value is the Exchange Rate value to be entered in the setting operation above.

Example) Domestic Currency is US\$:

1¢ = xxxx.xxxxxx centimes (French Franc) = xxxx.xxxxxx pfennigs (Deutsche Mark) = xxxx.xxxxxxx yen (Japanese yen) etc.

Enter this value as the foreign currency exchange rate.

3. If "0" is set as the exchange rate, that key cannot be used in sale entries.



### Setting Foreign Currency Amount Division Position (Display Form):

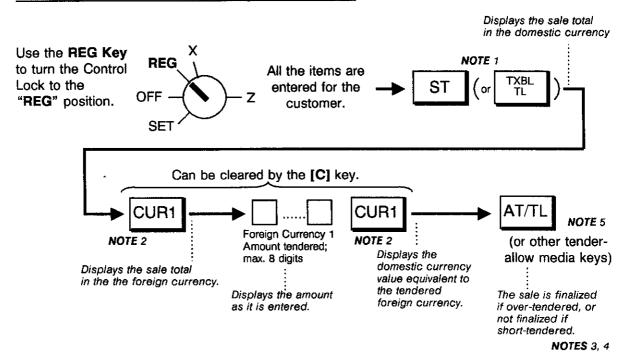
Select the appropriate amount division position for each foreign currency -- "0.00" (initial status) such as US\$ or "0" such as Japanese yen. The currency tender amount is displayed in the selected form.

Refer to Chapter "19. System Option Setting":

Address 12 - Bit 5 for Foreign Currency 1 ([CUR1])

Address 12 - Blt 6 for Foreign Currency 2 ([CUR2])

### Entering Sale Paid in a Foreign Currency 1



- NOTES 1. The [ST] (or [TXBL TL] key is not required after a short-tender entry.
  - 2. The [CUR2] key operates the same for tendering Foreign Currency 2.
  - 3. When over-tendered:

The sale is finalized, the drawer opens, and the change due is displayed in the domestic currency which is to be returned to the customer.

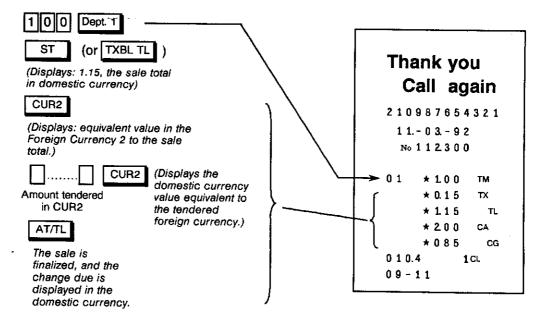
#### When short-tendered:

The sale is not finalized. Any other media tendering may follow (refer to the section "Multi-tendering, Split-tendering".

- 4. The tendered amount is processed into the following in the report memory:
  - Domestic media (of the key operated -- Cash, Check, or Charge) total
  - Foreign Currency (of the key operated -- CUR1 or CUR2) in the foreign currency value.
  - The amount is not processed into the corresponding media-in-drawer total.
- 5. The final media key must be programmed to allow tendering.
- 6. A negative-balance sale cannot be finalized with a Foreign Currency key.
- 7. The Foreign Currency keys cannot be used to finalize Received-on-Account payment entries.

### Example)

### Key Operation and Display



The amount tendered is not printed in the foreign currency value (but domestic value only). Neither is the exchange rate printed.

# Post-issue Receipt

RECEIPT ISSUE

(Post-issue Receipt Key)

When a sale is finalized with the "R OFF" lamp extinguished (the illuminated/extinguished status can be switched by the **[LOG/RECEIPT]** key), a receipt is automatically issued. However, if a sale is finalized with the "R OFF" lamp illuminated but a receipt is required by the customer, this key works.

- NOTES 1. When a sale has contents of 20 print lines or less, the post-issue receipt will be an itemized receipt, just as the ordinary receipt.
  - 2. When a sale has contents of more than 20 print lines, the post-issue receipt will be a total-only receipt.

Post-issue Receipt
(for a sale containing 20 print lines or less)

# Thank you Call again

1 1. - 0 3. - 9 2 No 1 1 2.3 0 0 **\*** 2.0 0 05 05 **\* 200** \* 4.00 ST 1 0. -0.40ТМ **\*** 0.55 0 1 TΧ **\*** 0.06 CATL 1CL 0 1 0.6 09-14

Post-issue Receipt (for a sale containing more than 20 print lines)

# Thank you Call again

11.-03-92

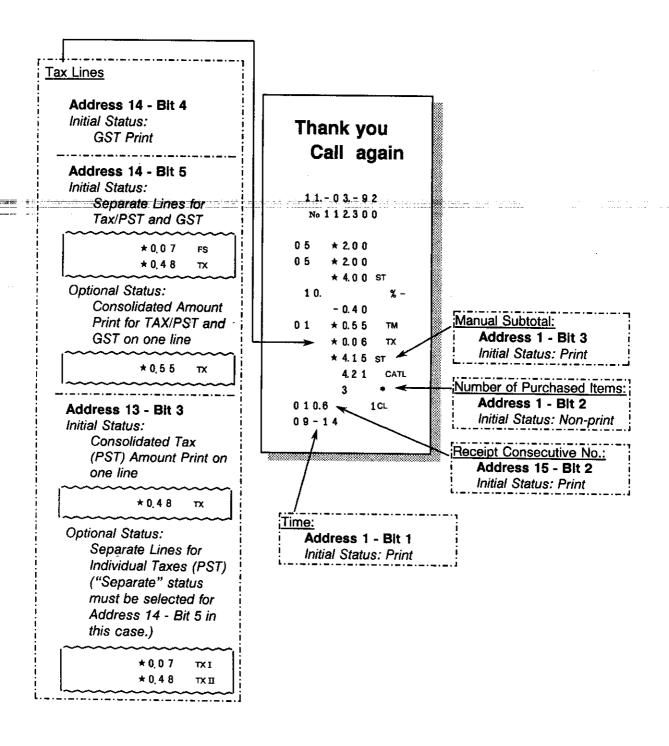
No 112300

\*2400 TL 010.7 1CL 09-15

### Print/Non-print Options on Sale Receipts

The following are items that can be programmed to be printed or not on sale receipts.

To change the print/non-print status, refer to Chapter "19. System Option Setting". For changing the print/non-print status of each item, further refer to the Address No. and Bit No. in the chapter.



# 18. Read and Reset Reports

This chapter describes the operation to take each report and its contents. The report function is one of the most beneficial features of this register. As sales data are entered, the register processes the data into appropriate totals and counters in the report memory. The reports are not only a form of sales data records but will also be a valuable guide to a more prosperous future of your store if you fully utilize and analyze them.

### **Programming Operations Relating to Reports**

### Programming Hourly Range Table

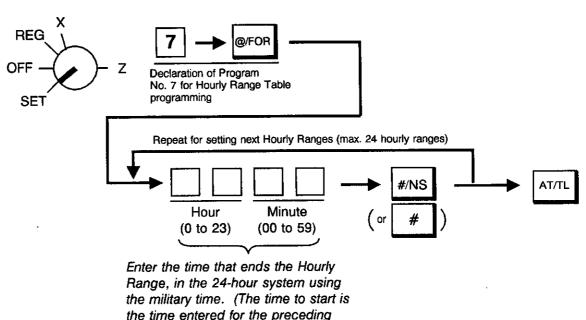
The "Hourly Sales Report" is available as part of the report function. However, sales data entered in **REG** mode are processed into Hourly Ranges only after programming an Hourly Range Table. If you have started operations on the register without this programming operation performed, the "Hourly Sales Report" cannot take. The Hourly Sales Report table must be programmed in order to obtain Hourly Sales Reports during operations.

Condition: After Hourly Sales Reset

(refer to "NOTE on Condition" on page 22)

#### **Programming Procedure:**

Use the MA Key to turn the Control Lock to "SET".



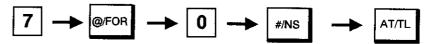
#### NOTES 1. A maximum of 24 hourly ranges may be set.

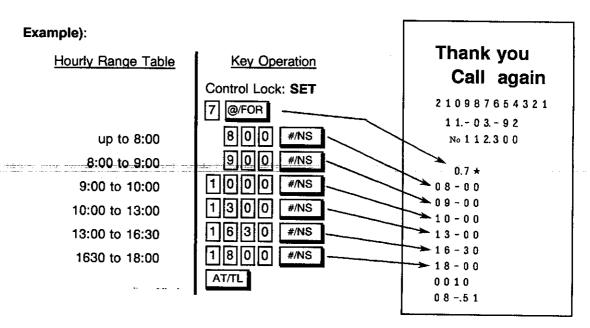
Hourly Range.)

2. Do not set an hourly range across 24:00, such as "from 23:00 to 1:00". Such setting does not cause an error in programming but the sales data will not be processed into that hourly range.

(See NOTES 2, 3)

- 3. If an hour value of more than 23 or a minute value of more than 60 is set, it will not result in an error but the data will not be processed into that hourly range.
- 4. To change the table of hourly ranges once set, partially or entirely, do the entire setting operation over again.
- 5. To clear the hourly range table once set, operate in SET mode





### Selecting Print/Non-print Items on Reports

The following table shows the items on reports that can be programmed to be printed or non-printed according to your store's requirements. For further details of programming, refer to Chapter "19. System Option Setting". If you have started operations on the register without this programming operation performed, print or non-print status of each item is determined by the "Initial Status" in the following table. It is recommended, therefore, to change Print/Non-print status of each item after once taking all the reports.

Item	Initial Status Before Change	System Option Address No Bit No.
GT (Grand Total)	Print	Address 1 - Bit 4
Sum of Negative Departments	Non-print	Address 1 - Bit 6
Sum of All Departments (except Other Income Depts)	Non-print	Address 11 - Bit 2
Sum of Other Income Departments	Non-print	Address 11 - Bit 3
Net Sale With Taxes	Print	Address 13 - Bit 1
Net Sale Without Taxes	Non-print	Address 13 - Bit 2
Receipt Consecutive No. on Journal and every Receipt	Print	Address 15 - Bit 2
Receipt Consecutive No. Resetting	Non-resettable	Address 15 - Bit 3

### Taking Read and Reset Reports

### Fundamental Concepts of Various Types of Reports

Four types of Reports are available in connection with the Control Lock positions and the periods of data accumulation:

**Daily Read Report:** 

It can be issued at any time and any number of times during the day. It allows to read the sales data recorded up to the moment since the corresponding Reset Report was issued yesterday. Taking this type of report will not affect any sales data in the report memory.

**Daily Reset Report:** 

The contents and format are the same as the Daily Read Report. However, it should be issued only once at the end of the day usually after closing the store. It is the "final" report that should be kept in file. Taking this type of report will clear all the resettable totals and counters in the report memory after the report is issued.

Periodical Read Report:

It can be issued at any time and any number of times during a certain period defined by the store (one week, one month, etc.). Thus it allows to read the sales data accumulated up to the moment since the corresponding Reset Report was issued last time.

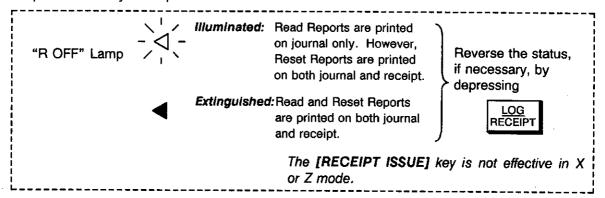
Periodical Reset Report: The contents and format are the same as the Periodical Read Report. However, it should be issued only once at the end of the defined period as the "final" report and be kept in file. Taking this type of report will clear all the resettable totals and counters in the report memory after the report is issued.

In addition, Read Reports (Daily or Periodical) are called "X" reports since the reports are taken with the Control Lock positioned to "X" and the header "X" is printed. Reset Reports (Daily or Periodical) are called "Z" reports, taken with the Control Lock positioned to "Z". printing the header "Z". Please also note the Reset Report Counter is printed on each Reset (Z) Report only. By this counter, you be sure that no illegal Reset Reports were taken between the one taken at the end of yesterday and the one taken now.

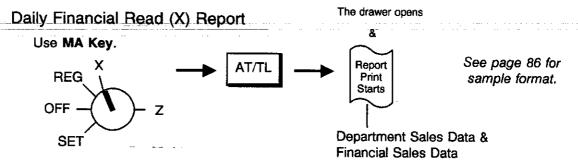
CAUTION: Whenever you turn the Control Lock to the "Z" position, be sure that you are taking Reset Reports (final reports) and that the sales data will be cleared by the operation to follow.

### Report Taking Operation

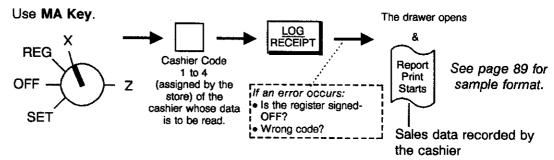
The following are the key operations to take specific reports. Be certain that the "R OFF" lamp status suits your requirement:



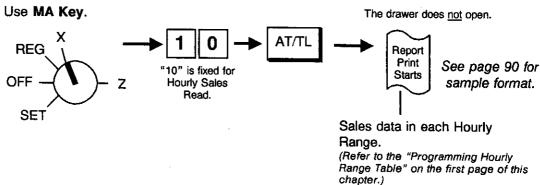
### **Daily Read Reports:**



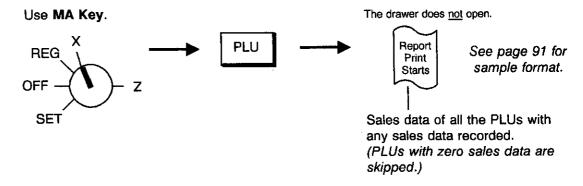
Daily Cashier Read (X) Report (operable in signed-OFF condition only)



### Daily Hourly Sales Read (X) Report

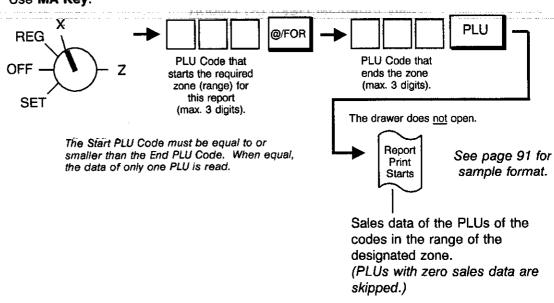


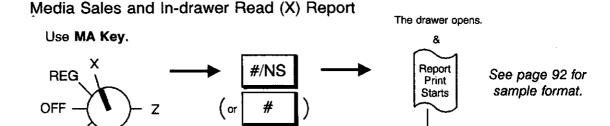
### All PLU Sales Read (X) Report



### Zone PLU Sales Read (X) Report

#### Use MA Key.





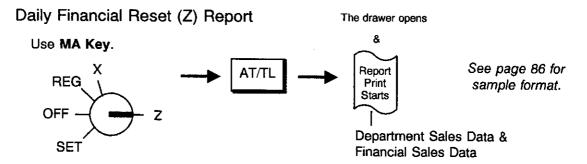
NOTE:

SET

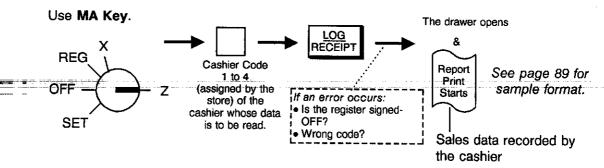
This report must be taken, if necessary, before the Daily Financial Reset (Z) Report is taken. Otherwise, all the media data are reset by the Financial Reset.

Each Media Sales Total, Each Media-in-drawer Amount

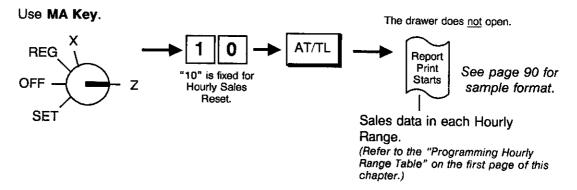
### **Daily Reset Reports:**



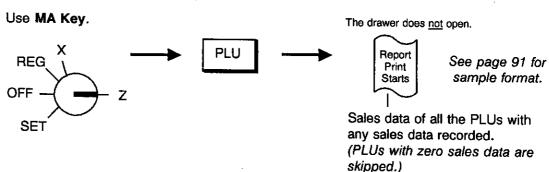
### Daily Cashier Reset (Z) Report (operable in signed-OFF condition only)



### Daily Hourly Sales Reset (Z) Report

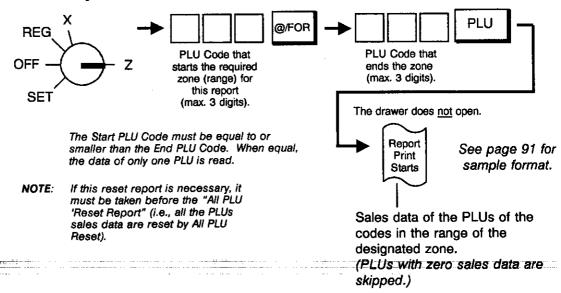


### All PLU Sales Reset (Z) Report

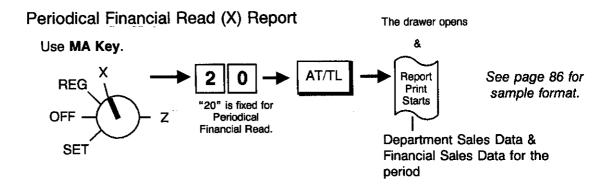


### Zone PLU Sales Reset (Z) Report

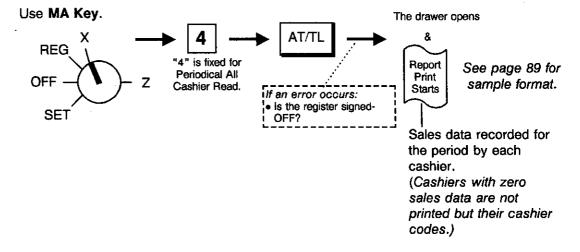
#### Use MA Key.



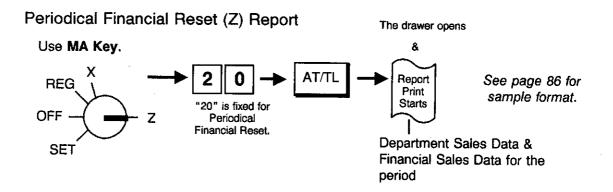
### **Periodical Read Reports:**



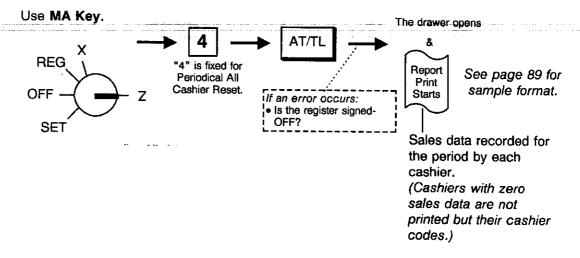
Periodical All Cashier Read (X) Report (operable in signed-OFF condition only)



### **Periodical Reset Reports:**



Periodical All Cashier Reset (Z) Report (operable in signed-OFF condition only)

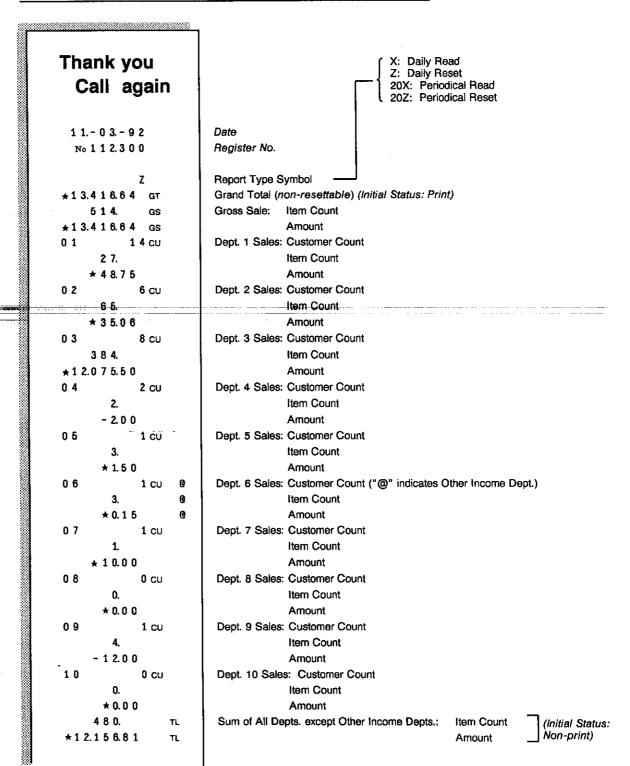


### **Report Sample Format**

On the following pages are sample formats of respective reports. In referring to those formats, please note the following conditions:

- In each report format, all the items that can be programmed to print are placed. (Refer
  to "Selecting Print/Non-print Items on Reports" on the second page of this chapter
  for further information.)
- The data contents are merely examples to show the report format. The numeric data may not balance correctly. (Refer to the "Memory Balance" attached to the Daily Financial Read or Reset Report.) Neither the programmed contents nor sales data placed as examples in various operating procedures in Chapter "17. Setting Preparation of Each Key and Transaction Entries" or any other chapters are related to the numeric data in the report formats.

### Financial Read or Reset Report (Daily or Periodical)



```
% +
                            Percent Charge
             1
                                              Count
      * 0.9 5
                   % +
                                              Amount
    4 8 0.
                  NS
                            Net Sale Without Tax:
                                                  Item Count
                                                                     (Initial Status:
1 2,1 5 7.7 6
                  NS
                                                   Amount
                                                                     Non-print)
      *0.07
                  FS
                           GST Amount
  1,207,41
                  TX I
                           Tax(PST) 1 Amount
      * 2.88
                  TX II
                           Tax(PST) 2 Amount
    480.
                  NS
                           Net Sale With Tax: Item Count
                                                                (Initial Status:
13,368.12
                  NS
                                              Amount
                                                                Print)
                           Sum of Other Income Departments:
                   0
                                                                Item Count
                                                                               (Initial Status:
      * 0.15
                   Q
                                                                Amount
                                                                               Non-print)
                   % -
                           Percent Discount on Subtotal:
             1
                                                            Count
      * 0.40
                   % -
                                                            Amount
             1
                           Dollar Discount:
                                              Count
      * 0.40
                                              Amount
           2 3 CU TL
                           Total Customer Count
13,367.47
                           All Media Sales Amount
                   TL
           2 0 CUCA
                           Cash Sales: Customer
13,351.90
                 CATL
                                         Amount
             1 CUCK
                           Check Sales: Customer
     * 7.2 6
                 CKTL
                                         Amount
                           Charge Sales: Customer
             2 cuch
     * 8.3 1
                 CHTL
                                         Amount
                   RΔ
                           Received-on-Account Payment:
                                                           Count
     1 2.5 0
                   RA
                                                           Amount
             3
                           Paid Out: Count
                   PO
     * 6.5 0
                   PO
                                    Amount
13352.66
                           Cash-in-drawer Amount
                 CAID
                                                                 These items are
           2
                           Check Count
                 CK
                                                                 printed on Daily
     1 0.5 0
                           Check-in-drawer Amount
                 CKID
                                                                 Reports only but
                                                                 not on Periodical
                           Charge Count
                 СН
                                                                 Reports.
     * 8.3 1
                           Charge-in-drawer Amount
                 CHID
             Ž VD
                           Item Correct: Count
     * 3.0 3
               VD
                                         Amount
             2 VD
                           Void:
                                    Count
                   II
     1 1.0 0
                                    Amount
               ۷D
                   11
             1 VD
                   Ш
                           Misc. Void:
                                         Count
                                                        (Item Corr and Void on other items
                                                        than Departments and PLUs.
     * 0.15
                                        Amount
               VD
                   Ш
             1 VD
                   IV
                           All Void: Count
     18.70
               ٧D
                                    Amount
                   IV
                  % -
                           Percent Discount on Item:
                                                      Count
    . * 0.32
                  % -
                                                      Amount
       6.
                           Sum of Negative Departments:
                                                           Item Count
                                                                            (Initial Status:
   - 1 4.0 0
                                                           Amount
                                                                            Non-print)
       5.
               RT
                          Returned Merchandise: Item Count
     * 1.30
               RT
                                                  Amount
     * 0.17
                          Negative or Returned Tax Amount
                TX -
     * 1.0 0
                FSTL
                          Total of Sale Amount subject to GST
```

```
Total of Sale Amount subject to Tax(PST) 1
*1.2074.09
                TXTL
     * 5 7,5 7
                          Total of Sale Amount subject to Tax(PST) 2
                TXTL
                          Total Tax Exempt Customer Count
            2 EX
                          GST Exempt Amount
      *1.00 EXFS
      *6.00 EX I
                          Tax(PST) 1 Exempt Amount
                          Tax(PST) 2 Exempt Amount
       ★8.00 EX II
                          Foreign Currency 1:
1
                               Tender Count
                                                           These items are
                                                           printed on Daily
       * 0.0 0
                               Amount-in-drawer
                                                           Reports only but
                          Foreign Currency 2:
                                                           not on Periodical
                               Tender Count
                                                           Reports.
              1
                               Amount
                          No-sale Count
                          Reset Count (of each Reset Report); prints on Reset Reports only
       0 0,0 1 Z
                          Receipt Consecutive No.
0 2.0 7
13-53
                           Current Time
                                                   ......
```

### -- Memory Balance --

Grand Total = Sum of Daily Gross Sales

NOTE

Gross Sale = (Sum of All Depts) + (Sum of Tax/PST 1 & 2) + (Percent Charge)

+ (Percent Discount on Item) + (Sum of Negative Depts) + (Item Correct)

+ (Void) + (Returned Merchandise) + (Negative Tax) + (GST) + (All Void)

Net Sale With Tax

NOTE

= (Sum of All Depts) + (Sum of Tax/PST 1 & 2) + (Percent Charge)

+ (GST)

= (Gross Sale) - (Percent Discount on Item) - (Sum of Negative Depts)

- (Item Correct) - (Void) - (Returned Merchandise) - (Negative Tax)

- (All Void)

#### All Media Sales

- (Net Sale With Tax) (Percent Discount on Subtotal) (Dollar Discount)+ (Sum of Other Depts.)
- = (Cash Sales) + (Check Sales) + (Charge Sales)

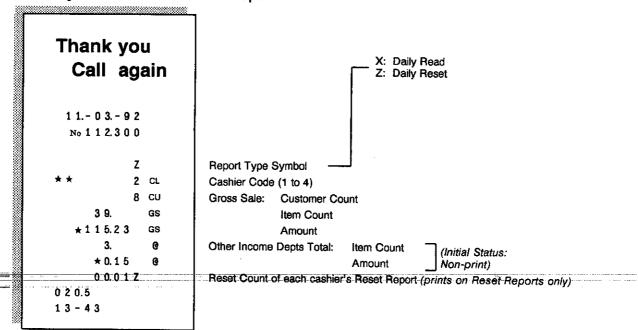
Sum of All Hourly Range Sales = Net Sale With Tax

Sum of Sales (Gross Sale) by All Cashiers = Gross Sale

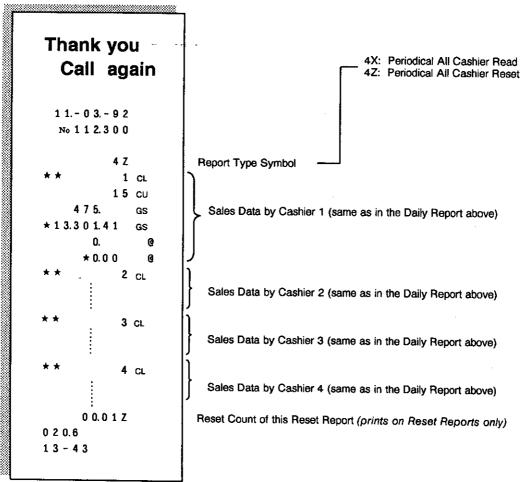
NOTE: "Sum of All Depts" does not include Other Income Depts.

### Cashier Read or Reset Report (Daily or Periodical)

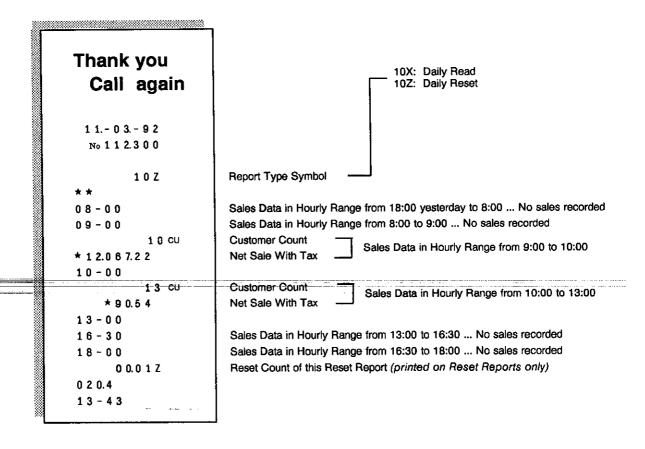
#### **Daily Cashier Read or Reset Report**



### Periodical Cashier Read or Reset Report

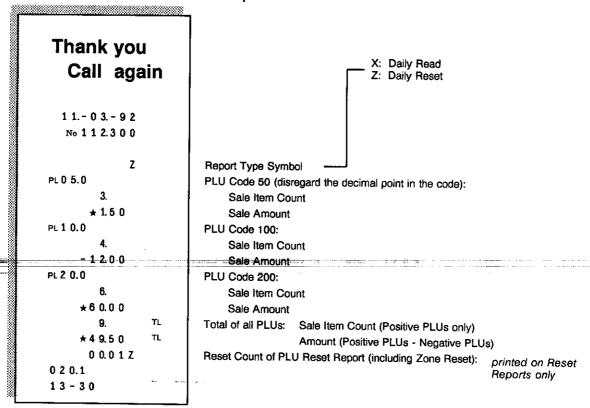


### **Daily Hourly Sales Read or Reset Report**



### Daily PLU Read or Reset Report (All or Zone)

#### Daily All PLU Read or Reset Report



### Daily Zone PLU Read or Reset Report

The format is the same as "All PLU Read or Reset Report" above. Only the difference is that the **Zone Read or Reset Report** outputs only the PLUs in the zone designated by the key operation to take the report.

## Daily Media Sales & In-drawer Read Report

### Thank you Call again 1 1. - 0 3. - 9 2 No 1 1 2.3 0 0 X 2 3 GU TL **\* 1 3.3 6 7.4 7** ★ 1 3.3 5 2.6 6 CAID 2 CK **\* 1 0.5 0** CKID 2 CH ★ 0,31 CHID 1 **★** 0.0 0 ID 2 **\* 1.00** ID 0 2 0.3

13-42

Report Type Symbol (Daily Read Report only)
Total Customer Count
All Media Sales Amount
Cash-in-drawer Amount
Check Count
Check-in-drawer Count
Charge Count
Charge In-drawer Count
Foreign Currency 1:
 Count
 Amount-in-drawer
Foreign Currency 2:
 Count

Amount-in-drawer

# 19. System Option Setting

This chapter is provided for your selections of the register's basic functions according to the market and your requirements, some of which are already indicated for reference in other chapters as to print/non-print items, key functions, etc.

### **Programming Procedure**

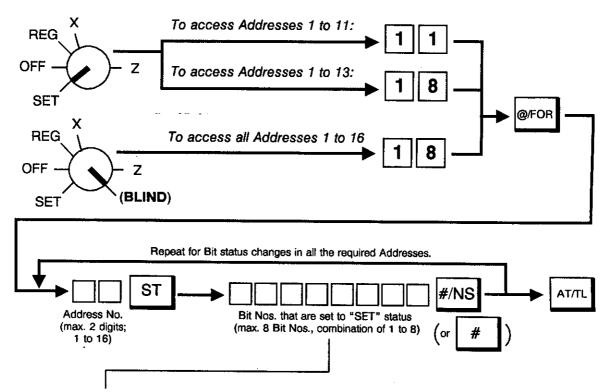
The System Options are divided into 12 addresses (Addresses 1 to 16; Addresses 4, 5, 9 and 10 are vacant) and each address is further divided into a maximum of 8 bits (Bits 1 to 8). Each Address table is placed on the following pages.

Condition: After Daily Financial Reset (refer to "NOTE on Condition" on page 22)

#### **Programming Procedure:**

Use the MA Key to turn the

Gontrol Lock to "SET" or the S Key to turn the Control Lock to "BLIND".



Enter a maximum of eight-digit number composed of Bit Nos. whose status must be set to the "SET" status in the Address. If there is no Bit Nos. to be set to the "SET" status, enter "0" for the Address.

 Examples)
 To SET Bit 2 only
 Enter 2.

 To SET Bits 2 and 3
 Enter 23.

 To SET all the Bits
 Enter 12345678.

 To RESET all the Bits
 Enter 0.

To change any Bit in an Address, enter the Address No. and enter all the SET Bit Nos again. If a Bit No. is not included in the SET Bit Nos, the Bit will be RESET.

- NOTES 1. Any Bit No. shaded and filled with "-- vacant --" in the Address tables on the following pages will be disregarded even if it is SET or RESET. (However, if ever SET, it will not result in an error.)
  - 2. The Initial Status of each Bit is indicated by a dotted frame such as:

If you have never changed the Bit statuses in the Address before, the Initial Status is active. Therefore, only the Bit status changes of the required Addresses may be entered. If an All Memory Clear is operated (refer to Chapter "23. Status Clear and Memory Clear Operations"), all the Bits in all the Address automatically regain the Initial Status.

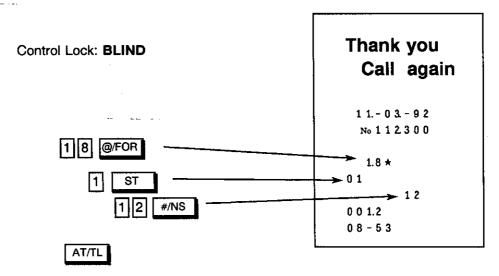
### Programming Example) To select the following options:

Address 1 (refer to the next page)

Bit 1: Time NON-PRINT (SET status)

Bit 2: Purchased Item Count NON-PRINT (SET status)

Other Bits are to be all RESET (PRINT)



Addr	ess: 1	I SET Bit Nos.	2 6
	(Non-print Options 1) Your	Selection —	
Bit	Content	Selective	e Status
No.		RESET	SET
1	Time on Journal and Every Receipt in REG, X, Z, SET modes	PRINT	NON-PRINT
2	Purchased Item Count on Sale Receipts in REG mode	PRINT	NON-PRINT
3	Manual Subtotal on Sale Receipts in REG mode	PRINT	NON-PRINT
4	GT (Grand Total) on Financial Reports (in X and Z modes)	PRINT	NON-PRINT
5	vacant		
6	Sum of Negative Department Data on Financial Reports (in X and Z modes)	PRINT	NON-PRINT
7,8	vacant		

Addr	Address: 2 Initial SET Bit Nos.		0
	(Optional Functions 1) Your	Selection —	
Bit	Content	Selective	e Status
No.		RESET	SET
1	Fraction Rounding Process on Quantity Extension or % Calculations	Round OFF	ROUND UP
2	Fraction Rounding Process on Quantity Extension or % Calculations	Follow Bit 1 status.	ROUND DOWN
3	Credit Balance (over-subtraction of the sale by [DOLL DISC] or [VOID] keys) in REG mode	PROHIBITED	ALLOWED
4	Obtaining Taxable Total (sale total including taxes) by [TXBL TL] or [ST] key before finalizing each sale	NOT COMPULSORY	COMPULSORY
5 to 8	vacart		

#### Supplementary Description:

Bit 1 & Bit 2: If both RESET, ROUND OFF status is obtained.

If both SET, Bit 2 status prevails, i.e., ROUND DOWN.

(Fraction Rounding Process on tax/PST calculations is fixed to ROUND UP, out of the application of the process selected here. As for GST, see Address 14 - Bits 2 & 3)

Bit 3: The [RTN MDSE] key is operable to turn the sale into negative regardless of this bit status selection.

Address: 3 Initial SET Bit Nos. (GST Status) Your Selection -Selective Status Bit Content SET RESET No. -- vacani -1 to S **GST NON-TAXABLE GST TAXABLE** [%+] key 4 GST NON-TAXABLE **GST TAXABLE** 5 [%-] key GST NON-TAXABLE **GST TAXABLE** [DOLL DISC] key 6

#### Supplementary Description:

Bit 4 & Bit 5: SET status

·· vacant ···

[%+] and [%-] keys become GST Taxable if they are used after depressing the [ST] key. [%+] and [%-] keys obey Department GST status if they are used after depressing [DEPT] key.

-- Addresses 4, 5 are vacant. --

Address: |6

Bit

No.

1

([AT/TL] Key Function)

Content

Tender and Total Functions in finalizing

-- vaceni --

ilnitial SET Bit Nos. Your Selection

RESET

Selective Status SET **TENDER or TOTAL** TENDER only

#### Supplementary Description:

a sale in REG mode

The key functions as Tender Key with a prior amount entry or as Bit 1: RESET status ...

Total Key without any amount entry. The key always requires a tender amount entry. SET status

- 96 -

Addr	ess: 7	Initial SET Bit Nos.	13
	([CHK TND] Key Function)	Your Selection ———	
Bit	Content	Selective Status	

Bit	Content	Selective Status	
No.	Content	RESET	SET
1	Tender and Total Functions in finalizing a sale in REG mode	TENDER or TOTAL	TENDER only
2	vacant		
3	Cashing with no purchase, using this key.	PROHIBITED	ALLOWED
4	Over-tendering (tendering an amount larger than the sale total, resulting in calculation of change due)	ALLOWED	PROHIBITED
5 (6 8	vacani		

### Supplementary Description:

Refer to the "Supplementary Description" of Bit 1 attached to Address 6 above.

Bit 3: RESET status ... Customers' checks cannot be cashed outside a sale.

... Customers' checks can be cashed with no purchase outside a sale. SET status

This Bit status selection is effective only in tendering operation. Bit 4:

... If this bit is SET and also Address 11 - Bit 1 is SET (for Short-SET status tendering Prohibited), an amount equal to the sale total is always required for tendering.

- 97 -

Addr	i	SET Bit Nos.	
Bit		Selective Status	
No.	Content	RESET	SET
1	Tender and Total Functions in finalizing a sale in REG mode	TENDER or TOTAL	TOTAL only
2	vacant		
3	Cashing with no purchase, using this key	PROHIBITED	ALLOWED
4	Over-tendering (tendering an amount larger than the sale total, resulting in calculation of change due): effective only when Bit 1 is RESET	ALLOWED	PROHIBITED

#### Supplementary Description:

-- vacant -

5 to 8

The key functions as Tender Key with a prior amount entry or as Bit 1: **RESET status** 

Total Key without any amount entry.

The key functions as Total Key only. SET status

Cashing with no purchase is prohibited. Bit 3: RESET status SET status

Cashing with no purchase is allowed outside a sale

This Bit status selection is effective only in tendering operation and only when Bit 1 is Bit 4:

RESET.

... If this bit is SET and also Address 11 - Bit 1 is SET (for Short-SET status

tendering Prohibited), an amount equal to the sale total is always

required for tendering.

-- Addresses 9, 10 are vacant. --

Address: 1 1	Initial SET Bit Nos.	0
(Optional Functions 2)	Your Selection —	

Bit	011	Selective Status	
No.	_ Content	RESET	SET
1	Short-tendering using any media key. (applicable to [AT/TL], [CHK TND], [Chg])	ALLOWED	PROHIBITED
2	Sum of all Departments (except Other Income Departments) on Financial Reports	NON-PRINT	PRINT
3	Sum of all Income Departments on Financial Reports	NON-PRINT	PRINT
1 to 8			

Address: 1 2 Initial SET Bit Nos. O

(Foreign Currency Options) Your Selection Selective Status

Bit	Content	Selective Status	
No.	No. RESET		SET
1 10 4	vacani		
5	Foreign Currency 1 ([CUR1]): Display Format for Amount of Zero (zero- suppress form)	0.00 (for unit format such as U.S. \$)	0 (for unit format such as Japanese yen)
6	Foreign Currency 2 ([CUR2]): Display Format for Amount of Zero (zero- suppress form)	0.00 (for unit format such as U.S. \$)	0 (for unit format such as Japanese yen)
	vacani		

#### Supplementary Description:

Bit 1 & Bit 2: The exchange rate of each of these currency must be programmed also. (Refer to the section "Sale Paid in Foreign Currencles" in Chapter 17.)

Addı		al SET Bit Nos.	[2]
Bit	Content		e Status
No.	Content	RESET	SET
1	"Net Sale With Tax" Line on Financial Reports	PRINT	NON-PRINT
2	"Net Sale Without Tax" Line on Financial Reports	PRINT	NON-PRINT
3	Tax(PST) Amount Line(s) on Sale Receipts when Tax(PST) 1 and Tax(PST) 2 are programmed.	CONSOLIDATED LINE (into one tax amount)	SEPARATE PRINT LINES
4 to 8	vacant		

### Supplementary Description:

Bit 3: RESET status ... The tax amount line is only one, consolidating the amounts of the two taxes into one.

SET status ... The amounts of the two taxes are printed on individual lines. This status selection is effective only when Address 14 - Bit 5 is SET (for GST separate print from PST).

Address: 1 4 ilnitial SET Bit Nos. Your Selection -(GST Options) Selective Status Bit Content **SET** RESET No. NOT ADOPTED GST Feature (for Canada only) ADOPTED (All bit status selections 1 below are disregarded) Fraction Rounding Process on GST Follow Bit 3 status. ROUND UP 2 Calculations. Fraction Rounding Process on GST ROUND DOWN ROUND OFF Calculations. \_-----GST Amount Lines on Sales Receipts PRINT **NON-PRINT** 4 PST & GST Amount Lines Print Format CONSOLIDATED SEPARATE LINES 5 on Sales Receipts (when Bit 4 is SET) AMOUNT LINE Sale amount subject to PST calculation **EXCLUDING PST INCLUDING PST** 6 7, 8 -- vacant --

#### Supplementary Description:

Bit 2 & Bit 3: If both RESET, ROUND OFF status is obtained.

If both SET, Bit 3 status prevails, i.e., ROUND DOWN.

(For Fraction Rounding Process on Quantity Extension and % calculations, see Address 2 - Bits 1 & 2. As for fraction rounding process on PST calculations, ROUND OFF status is fixed.)

Bit 5: If SET status is selected, you can further select printing of PST1 and PST2 on one consolidated line or separate lines. (See Address 13 - Bit 3.)

Address: 15	Initial SET Bit Nos.	4
(Optional Functions 3)	Your Selection ———	

Bit	Content	Selective Status	
No.	Content	RESET	SET
1	No-sale Transaction Entry After Non-add Number Print Entries	PROHIBITED	ALLOWED
2	Receipt Consecutive No. on Journal and every Receipts in any mode	PRINT	NON-PRINT
3	Receipt Consecutive No. Resetting	NON-RESETTABLE	RESETTABLE
	Amount Display by [ST] key depression during a sale	SUBTOTAL (Sale Total excluding Taxes)	TAXABLE TOTAL (Sale Total including Taxes)
5 (c c	vacani		

### <u>Supplementaly=Pescription:</u>

Bit 1:	RESET status	•••	Non-add Numbers cannot be printed on No-sale receipts.
	SET status		Non-add Numbers can be printed on No-sale receipts.

Bit 3: RESET status ... The Consecutive No. will increment every time a receipt is issued or a transaction is finalized. It is non-resettable.

SET status ... When a Daily Financial Reset Report is issued, the Consecutive No. is automatically reset. On the first receipt issued after the reset

report, the Consecutive No. "0001" will be printed. If this status is selected, it is recommended to take the Daily Financial Reset Report at the end of all operations on the register for the day (so that the first receipt will always start with Consecutive No. 0001 every day).

Bit 4: RESET status ... This status should be selected when both [ST] and [TXBL TL] keys are installed on the keyboard. Then [ST] displays SUBTOTAL while [TXBL TL] displays TAXABLE TOTAL.

SET status ... This status should be selected when only [ST] is installed but not [TXBL TL].

(Depressing [ST] always prints (if "PRINT" option is selected at Address 1- Bit 3) SUBTOTAL regardless of this bit status selection.)

Address: 1 6 Initial SET E

(Optional Functions 1)

Date Setting and Print Order

Your Selection —	
Initial SET Bit Nos. for a register of model name without R	128
Initial SET Bit Nos. for a register of model name with R	28

Bit	Content	Selective Status		
No.	Content	RESET	SET	
1	Drawer-close before starting any operation in any mode except SET and BLIND.	NOT COMPULSORY See NOTE below	COMPULSORY	
2	Number of times allowed for % (% + or % -) entries after once depressing [ST] during a sale	ANY NUMBER OF TIMES	ONLY ONCE	
3 to 6	vacani			
7	Date Setting and Print Order	Follow Bit 8 status.	Day-Month-Year	

#### Supplementary Description:

Bit 1: RESET status ... Any operation is possible with the drawer kept open.

SET status .... If any operation is attempted in REG, X, or Z mode with the drawer

kept open, an error results and keys on the keyboard are locked.

Year-Month-Day

Bit 2: RESET status ... Even when a % is entered after once obtaining a subtotal during a

sale, another % entry is possible if preceded with a prior depression

Month-Day-Year

of the [ST] key.

SET status ... A second % entry after once entering a % after a subtotal within a

sale will cause an error.

Bit 7 & Bit 8:

Both RESET ... Year-Month-Day order

Both SET ... Bit 7 status prevails, i.e., Day-Month-Year order.

NOTE: For registers of model name with R (i.e., MA-305-R110-E-US, see your carton), Bit No.1 of this Address always needs to be in RESET status. If you operate an All Memory Clear described on Chapter 23 after purchasing a register, you must set this bit to RESET status.

# 20. Program Data Verification

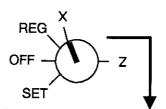
Whenever programming operations are performed, it is recommended to issue Program Verification receipts to check the programmed data before entering any other operation.

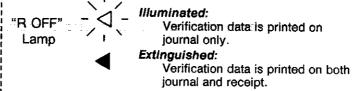
### **Operating Procedure**

Condition: Any time outside a sale

Programming Procedure:

Use the **MA Key** to turn the Control Lock to "X".

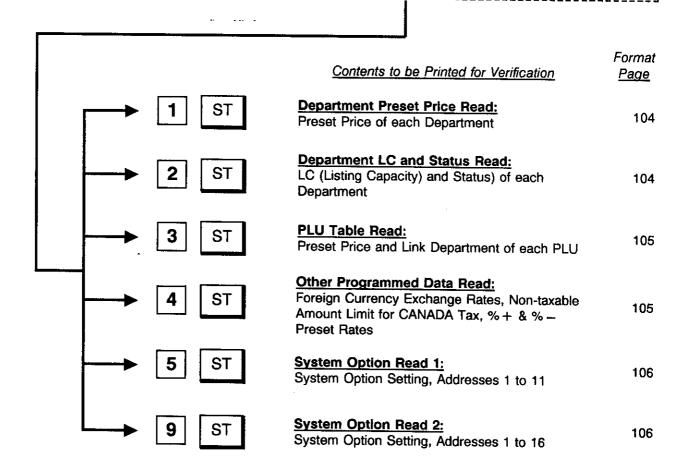




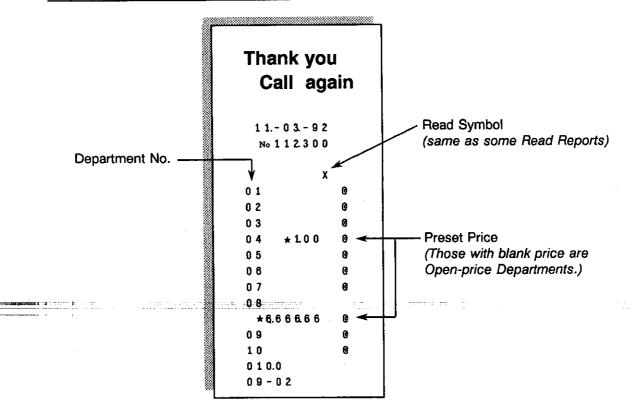
Reverse the status, if necessary, by depressing

LOG RECEIPT

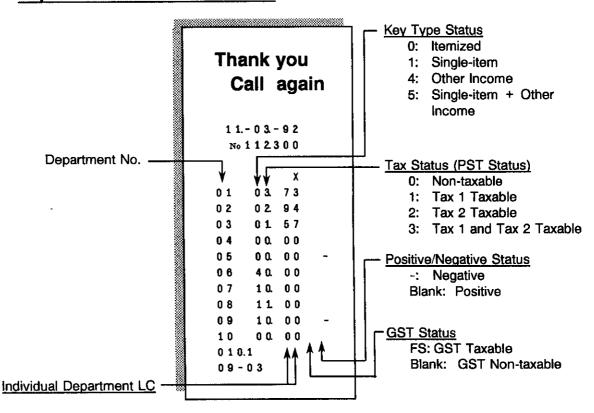
The **[RECEIPT ISSUE]** key is not effective in X mode.



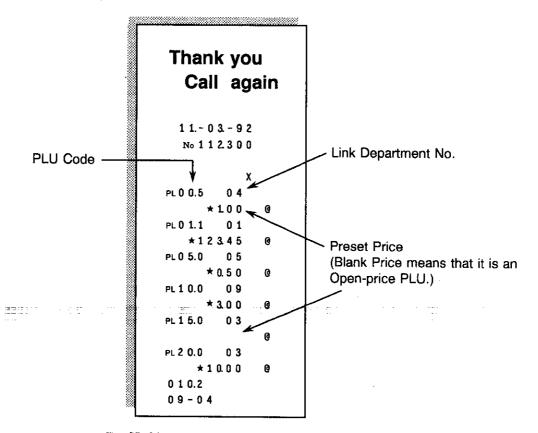
### **Department Preset Price Read**



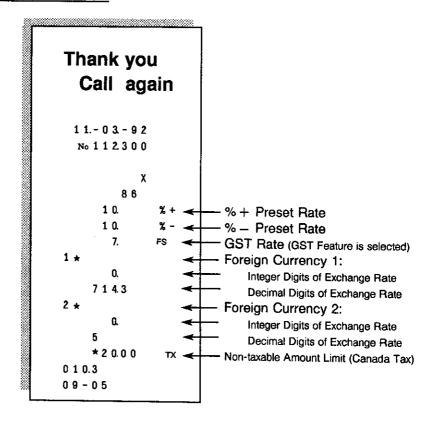
### **Department LC and Status Read**

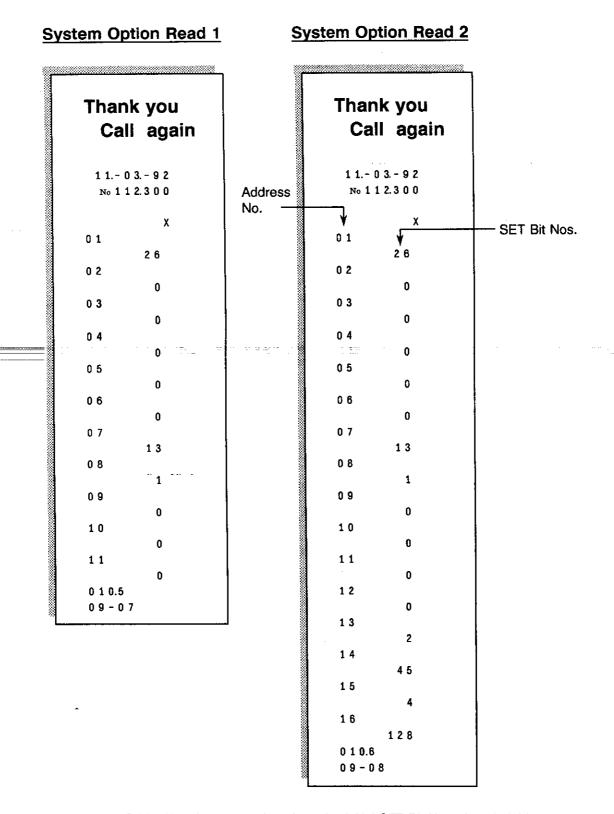


### **PLU Table Read**



### **Other Programmed Data Read**





NOTE: The above samples show the Initial SET Bit Nos of each Address.

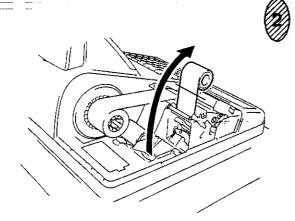
# 21. Paper Roll Replacement and Other Maintenance

### Replacing the Receipt Roll



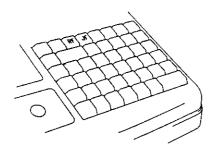


To remove the Printer Cover, lift the Printer Cover in the direction of the arrow mark ② while pushing the Printer Cover in the direction of the arrow mark ①.



Cut the Receipt Paper as shown in the figure.





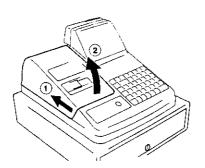
Depress the [RF] key to feed the remaining paper end.

**CAUTION**: Never try to pull out the remaining paper end by hand. It may cause the paper jam.

Load new roll paper as described on Chapter 10.

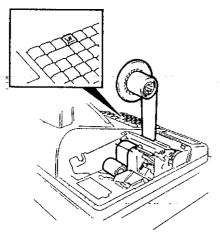


## Replacing the Journal Roll





To remove the Printer Cover, lift the Printer Cover in the direction of the arrow mark 2 while pushing the Printer Cover in the direction of the arrow mark ①.





Depress the [JF] key to wind up enough of the Journal Paper, then cut the paper as shown in the figure. Depress the [JF] key to feed the remaining paper end.

**CAUTION**: Never try to pull out the remaining paper end by hand. It may cause the paper jam.



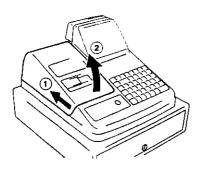


The wound-up portion of the paper can be easily removed from the Reel by pulling it side ways.

Load new roll paper as described on Chapter 10.

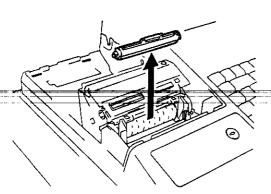


### Replacing the Ink Roll



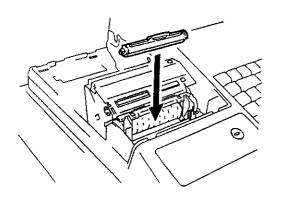


To remove the Printer Cover, lift the Printer Cover in the direction of the arrow mark ② while pushing the Printer Cover in the direction of the arrow mark ①.



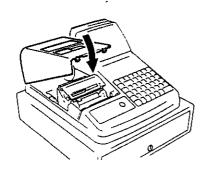


Remove the old Ink Roller by pulling It in the direction of the arrow mark.





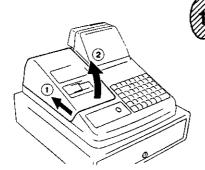
Install a new one by inserting it in the direction of the arrow mark.



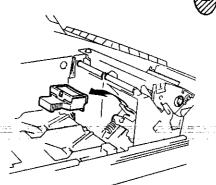


Attach the Paper Cover.

### Replenishing Ink to the Store Name Stamp

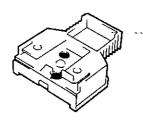


To remove the Printer Cover. lift the Printer Cover in the direction of the arrow mark ② while pushing the Printer Cover in the direction of the arrow mark ①.

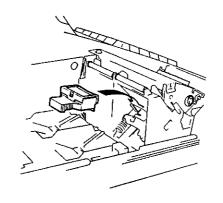


Remove the Store Name Stamp by pulling it in the direction of the arrow mark.

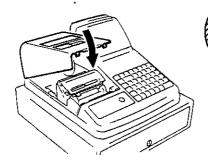




Apply only two or three drops. Stamp may not print dark immediately. Allow time for ink to saturate the stamp.



Install the stamp by inserting it in the direction of the arrow mark.

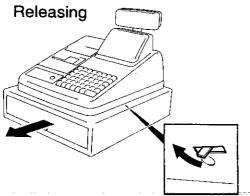


Attach the Printer Cover.

### Manual Drawer Release and Lock

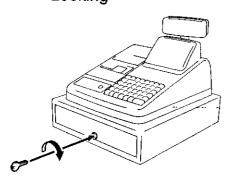
The drawer opens automatically when a registration is performed. In the event of a power failure or other trouble, the drawer can be opened manually in the following manner.

## A REGISTER OF MODEL NAME WITH "R"



Push the Drawer Releasing Lever to the direction of the arrow and the drawer opens.

Locking



Insert the Drawer Lock Key into the Drawer Lock, then turn the key clockwise by 90° degrees. The drawer is locked and will not open without transaction entries.

### A REGISTER OF MODEL NAME WITHOUT "R"





Remove the Drawer Key Cap.







Insert the Drawer Release Key into the Drawer Release Lock, then turn the key clockwise. The drawer will now open.

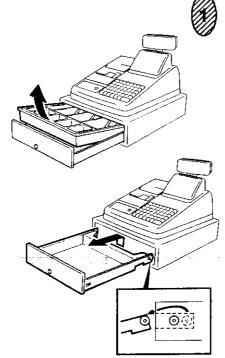
The Drawer Release Key can be taken out by returning it to the original position.

### Locking

When the drawer is closed, it is automatically locked and will not open without the Drawer Release Key or transaction entries.

### **Removing the Drawer**

### A REGISTER OF MODEL NAME WITH "R"

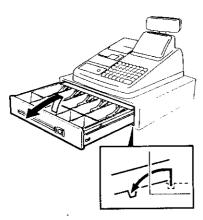


Pull the drawer out, and take out the Money Case.



When the drawer stops by the stopper, lift the drawer up and pull it again.

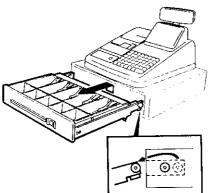
## A REGISTER OF MODEL NAME WITHOUT "R"





Pull the drawer out, and when it stops by the stopper, lift the drawer up and pull it again.



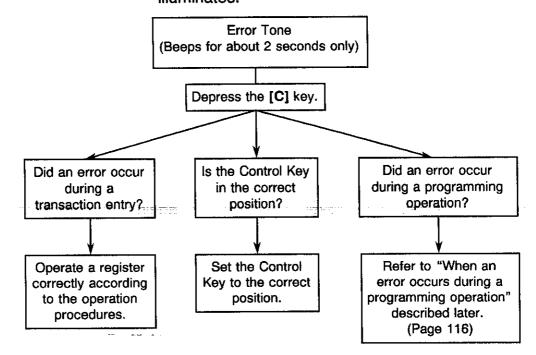


When it stops again by the roller fixed in the drawer case, lift it and pull it again.

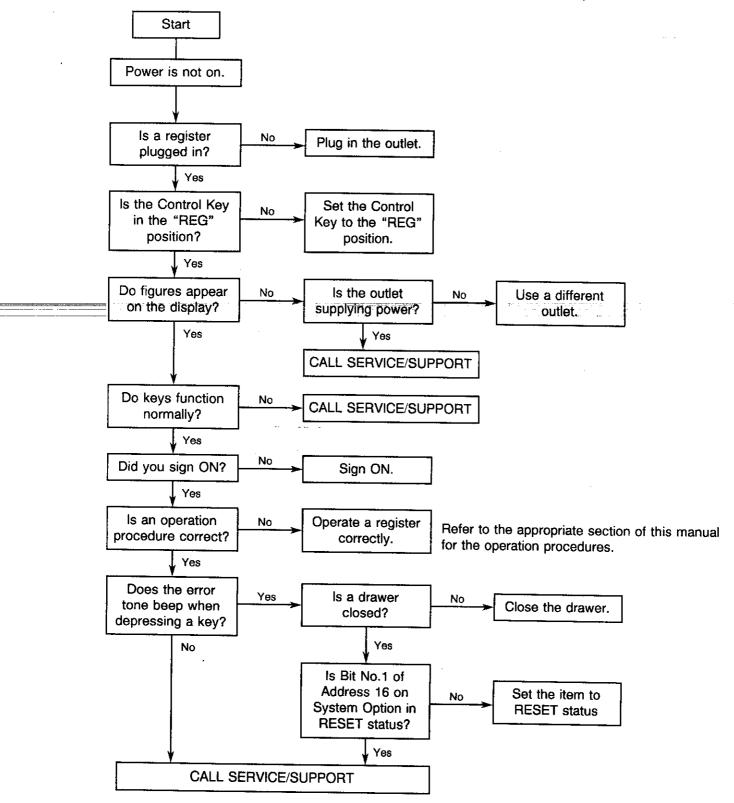
## 22. Troubleshooting

This section describes actions against operation problems.

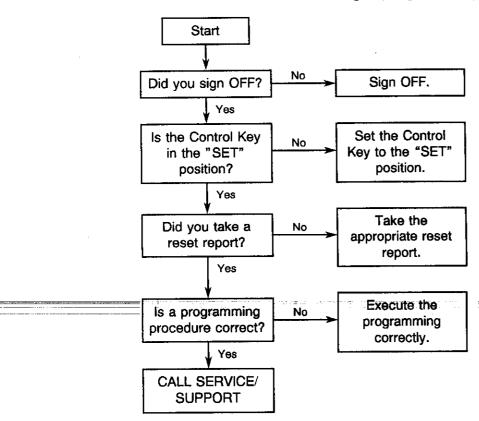
When an error occurs; The error tone beeps and the triangular lamp "ALM" illuminates.



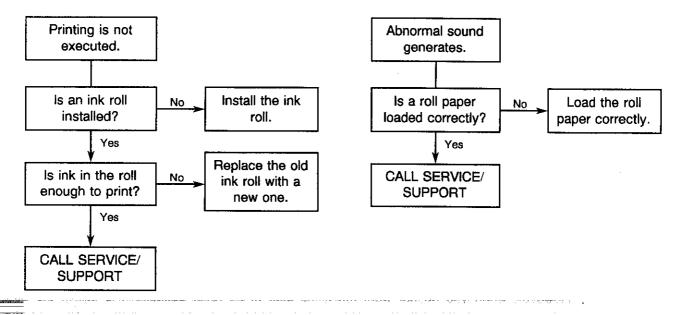
### When an transaction entry cannot execute in the "REG" mode;

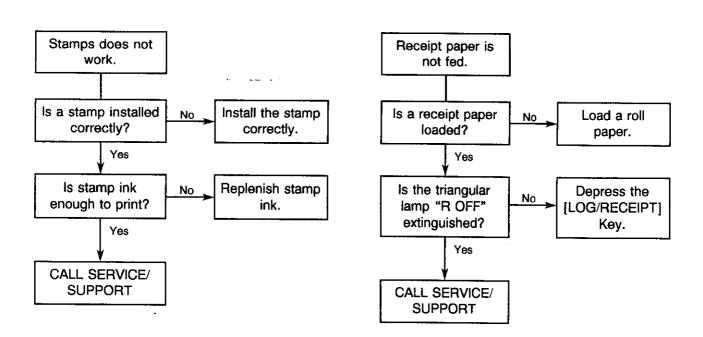


### When an error occurs during a programming operation;



### When printing condition is abnormal;





## 23. Status Clear and Memory Clear Operations

The operations described in this chapter are provided for initial start-up of the machine or emergency but not to be operated as part of daily routines. Do not perform any of these operations unless it is really necessary.

### Status Clear

The operation defined as "Status Clear" will only clear an error or key-locked condition that disables normal operations (though it seldom happens). Thus neither the sales data nor the programmed data will be cleared by a Status Clear (except that when a Status Clear is operated to clear a key-locked condition during a sale, the sale item data already entered for the current sale will only be cleared).

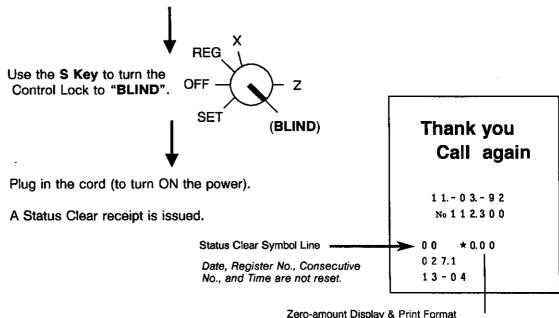
The Status Clear also has the function to obtain the condition "after all sales data resets" (as if all sales data had been reset) but will not actually affect any sales data. Such a condition is required in some programming operations and is usually obtained by taking the required reset reports. However, when you do not want the sales data to be reset because it is still in the business hours, etc., this function of the Status Clear will be effective. But be careful in using the function; depending on the programming item, sales data resets may really be necessary instead of a Status Clear, to keep consistency between the programmed data and the sales data.

#### **Operating Procedure**

Condition: Any time, outside or during any operation sequence

#### Operation:

Remove the plug of the register's power cord from the wall outlet (to turn OFF the power).



(may vary depending on the designation in the last "Sales Memory Clear" or "All Memory Clear" (refer to the following pages.) Initial Format: 0.00

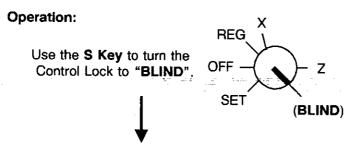
### Sales Memory Clear

The operation defined as "Sales Memory Clear" will only clear the sales data accumulated in the register's memory (report memory). The programmed data will not be cleared. By operating a Sales Memory Clear, all the sales data including non-resettable totals and counters, Reset Report Counts, Receipt Consecutive No. are cleared.

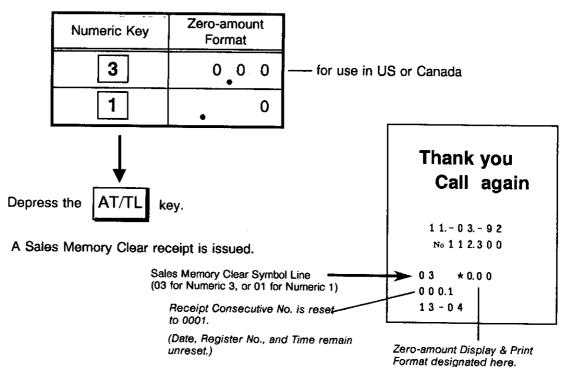
Warning: This clear operation deletes all sales data stored in the register's memory.

### **Operating Procedure**

Condition: Any time, outside or during any operation sequence except during Key Setting or Key Location Changing (Chapter 15) an System Option Setting.



Depress the following Numeric Key according to the display and print format for zero amount:



NOTE: When a Sales Memory Clear is operated, the condition "after all sales data reset" is obtained, just as "Status Clear" or "All Memory Clear". Therefore, no Reset Reports need to be taken for starting any programming operation.

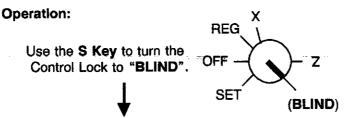
### **All Memory Clear**

If the register becomes completely inoperative due to battery discharge or malfunction of the program memory, the All Memory Clear operation must be carried out. When an All Memory Clear is operated, all the memory contents that have been stored in the RAM will be cleared (i.e., the programmed data <u>and</u> the sales data). Along with the clearing process, the designated zero-amount format is set and "Initial Data" and "Initial Status" for respective programming items are automatically set.

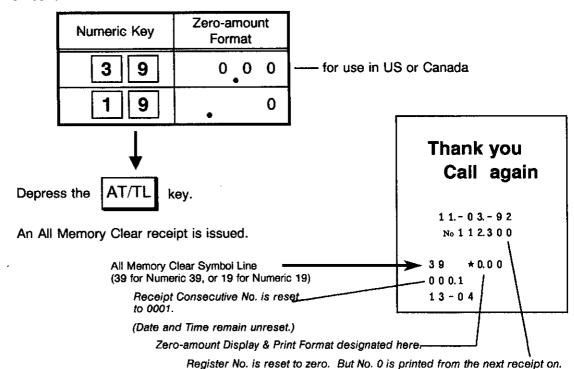
Warning: This clear operation deletes all programmed data and sales data stored in the register's memory. (i.e., a register goes back to initial status.)

#### **Operating Procedure**

Condition: Any time, outside or during any operation sequence except during Key Setting or Key Location Changing (Chapter 15) an System Option Setting.



Depress the following Numeric Key according to the display and print format for zero amount:



- NOTES 1. When a All Memory Clear is operated, the condition "after all sales data reset" is obtained, just as "Status Clear" or "Sales Memory Clear". Therefore, no Reset Reports need to be taken for starting any programming operation.
  - 2. If your register contains R in the model name (i.e., MA-305-R110-E-US), execute surely the following setting after operating the All Memory Clear.
    - Set the Bit No.1 of the Address 16 on System Option to RESET status.

## 24. Specifications

## A REGISTER OF MODEL NAME WITH "R"

Size

397mm (width) × 423mm (depth) × 305mm (height

including rubber feet) (or 373mm (height) when Customer's Display is popped up.)

Weight

10.5kg

### A REGISTER OF MODEL NAME WITHOUT "R"

Size

460mm (width) × 400mm (depth) × 308mm (height

including rubber feet)

(or 376mm (height) when Customer's Display is

popped up.)

Weight

12.5kg

**Power Required** 

AC 117V; 60Hz

**Power Consumed** 

0.32A

**Ambient Temperature** 

-0°C-to-40°C

**Relative Humidity** 

10% to 90%

Size of Receipt and Journal Rolls

45mm(width) x 80mm(diameter)

#### **Amount and Counter Totals in Report Memory**

	Daily					
Report	Amount (digits)	Item Count (digits)	Operation Count (digits)	Customer Count (digits)	Periodical Report Memory	
Financial Report Items Grand Total (non-resettable) Other Items <b>NOTE</b> Reset Counter	16 9	5 (+2 decimal)	5 or 4 4	5	Provided (except media-in- drawer totals)	
Department	9	5 (+2 decimal)		5	Provided	
PLU Reset Counter	9	5 (+2 decimal)	4	· · · · · ·		
Cashier Gross Sale Other Income Total Reset Counter	9 9	5 (+2 decimal) 5 (+2 decimal)	4	5	Provided	
Hourly Range Sale Reset Counter	9		4	5		

NOTE:

Some items have an Amount and a Counter, some have an Amount only, others have a Counter only. The counter type varies depending on the item.

#### **Memory Protection**

Long lasting rechargeable lithium battery for memory protection.

Specifications are subject to change without notice.

#### STAMP ORDER

Dear Customer;

A Receipt Stamp (Electro-stamp) "Thank you Call again" comes with each unit. If you prefer printing your company name or message to Thank you Call again for receipt inprint, please place order with using the order form below.

Please complete the order form and mail with your check for \$25.00 US Dollar.

Replenishment ink is also available \$1.50 US Dollar for purple ink.

TEC STA	MP O	RDER FO	RM	DA	TE
ORDER TO:	San (512 (210		78299 ( No.)	י די די ביני די	
SOLD TO:	COMPANY N	IAME			
	ADDRESS_				
	CITY		co	UNTRY	
	YOUR NAME				
	PHONE			ZIP CC	DDE
Please show the text of y stamp here (word only).	our/	TEC MODEL: MA-305			
		Description	UNIT PRICE	Q'TY	AMOUNT
		STAMP	\$25.00		
	 	Replenishment Ink	\$1.50		
				TOTAL	
		Please mail your o			

- NOTES: 1. If order two or more design stamps, please make copies of this form.
  - 2. Carda International is an independent company and is not affiliated with TEC.
  - 3. Carda International also accepts a custom logo with an extra cost.

Please have the fol you call:	lowing information available when
Product Name:	TEC Electronic Cash Register
Model: Serial Number:	MA-305-100

For supplies, service or assistance call:

If for any reason this product is to be returned to the store where purchased, it must be packed in the original carton.

Place Purchased: Date of Purchase:

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